YÖS
HAZIRLIK
SERİSİ

GEOMETRİ
Geometry

GENİŞLETİLMİŞ
YENİ BASKI

REVISED
NEW EDITION

PUZA
YAYINLARI

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Bu kitabın tüm hakları Puza Eğitim Danışmanlık Yayıncılık Ltd. Şti.'ye aittir. Hangi amaçla olursa olsun, kitabın tamamının veya bir kısmının elektronik, mekanik, fotokopi ya da herhangi bir kayıt sistemiyle çoğaltılması, yayımlanması ve depolanması yasaktır. Bu yasağa uymayanlar gerekli cezai sorumluluğu ve kitabın hazırlanmasındaki mali külfeti peşinen kabullenmiş sayılırlar.

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ISBN: 978-605-86977-9-9

Yayın Kurulu ▪ Publishing Board

Uğur PUZA
Kâzım ERDEM
Hatice ALTIN ERDEM

Dördüncü Baskı ▪ Fourth Edition

Kasım 2017

Dizgi-Sayfa Tasarımı ▪ Composition-Page Design

Uğur SAÇI

Kapak Tasarımı ▪ Cover Design

Sinan GÜNÇİNER

Baskı ▪ Press

YARDIMCI OFSET
Turgut Özal Blv. Seçim Sk. No: 30 06060 İskitler-Altındağ/ANKARA
Tel: 0312 342 26 27 • GSM: 0532 353 56 52

İsteme Adresi ▪ Ordering Adress

Başarı Dağıtım Kitap Kırtasiye Yay. ve Tic. A.Ş.
Bağlar Mah. Mimar Sinan Cad. 62. Sk. Yıldızlar Plaza
No: 10 / Giriş Kat Güneşli - Bağcılar - İstanbul / Türkiye
Telefon: +90 212 655 38 88 Faks: +90 212 657 38 88
www.basaridagitim.com

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Kavaklıdere - Ankara / Türkiye
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ÖNSÖZ

Herhangi bir bilgiyi belleğe sağlıklı olarak yerleştirebilmek için en bilinen ve en çok güvenilen yöntem tekrar yapmaktır. Kısa süreli bellekteki bir bilginin uzun süreli belleğe kaydolup geri çağırımının gerçekleşebilmesi için sistemli tekrar yapmak şarttır. Kitabımızdaki konular bu amaç doğrultusunda soru tiplerine ve özelliklerine göre gruplandırılmıştır. Konuya ait tüm özellikler tek tek ele alınmıştır. Ölçülmek istenen bilgi ile ilgili sorular, farklı açılardan sorularak bilginin pekiştirilmesi sağlanmıştır. Böylece öğrenciler bölümdeki soruların çözülmesi için tüm konunun bitmesini beklemeden öğrenilen soru tiplerinin çözümüne başlayabileceklerdir.

Kitabımızı referans alacak değerli meslektaşlarımız da konunun bitimini beklemeden, konunun anlatılan kısmından öğrencilerine ödev verebileceklerdir. Kitaptaki tüm sorular bilgilerin tümevarım yöntemi ile öğrenilmesi için basit soru tiplerinden karmaşık soru tiplerine adım adım geçiş yapılacak şekilde düzenlenmiştir. Bölüm sonu testlerinde üst düzey analiz gerektiren sorulara yer verilmiştir.

Değerli öğretmenlerimize ve sevgili öğrencilerimize yararlı olması dileğiyle...

FOREWORD

The must confident and well known way to put any kind of information into the memory safely is to repeat. For calling back the recorded information into the long term memory that is actually in the short term memory, systematic repetition is essential. The subjects in our book are classified according to the question types and attributes in parallel to this purpose. All the attributes regarding that topic have been considered one by one respectively.

The questions that are related to the information to be tested, are asked from various points of views to consolidate the information. As a result the students have the chance to start solving questions of all question types directly without waiting for the completion of the chapter for solving the questions. Our colleagues have also chance to give their students homework from the completed part without waiting for the full completion of the related chapter. All questions in the book are organized with the induction method that start with the simpler question types and improve into more complex question types. In the chapter final tests there are also question types that require higher level analysis skills. With our best wishes that this work will be useful to both our teachers and dear students...

Uğur PUZA

İÇİNDEKİLER | CONTENTS

Açılar | 1
Angles

Üçgende Açılar | 27
Angles of Triangle

Açı-Kenar Bağıntıları | 57
Angle-Side Relationships

Dik Üçgen | 75
Right Triangle

İkizkenar-Eşkenar Üçgen | 105
Isosceles-Equilateral Triangle

Açıortay | 125
Bisector

Kenarortay | 145
Median

Üçgende Benzerlik | 163
Triangle Similarities

Menelaus-Carnot-Seva-Stewart | 191
Menelaus-Carnot-Ceva-Stewart

Üçgende Alan | 197
Areas of Triangles

Çokgenler | 227
Polygons

Dörtgenler | 247
Quadrilaterals

Paralelkenar | 263
Parallelogram

Eşkenar Dörtgen | 297
Rhombus

Yamuk | 307
Trapezoid

Deltoid | 333
Deltoid

Dikdörtgen | 339
Rectangle

Kare | 355
Square

Çemberde Açı | 369
Circle Theorems - Angles

Çemberde Uzunluk | 393
Circle Theorems - Length

Dairede Alan ve Yay Uzunluğu | 413
Circle Theorems - Area and Circumference

Analitik Geometri | 433
Analytic Geometry - Line

Simetri | 465
Symmetry

Çember Analitiği | 475
Analytic Geometry - Circle

Katı Cisim | 495
Solid Geometri

Vektörler | 519
Vectors

AÇILAR
ANGLES

TANIMLAR|Definations

1.

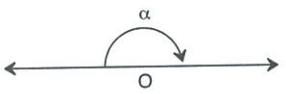
AB doğrusu *(straight)*

[AB ışını *(ray)*

[AB] doğru parçası
(line segment)

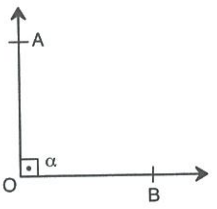
2. AÇI ÇEŞİTLERİ *(Types of Angles)*

2.1.



Doğru Açı
Straight Angle
$\Rightarrow \alpha = 180°$

2.2.

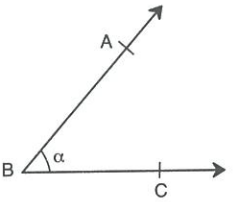


Dik Açı
Right Angle
$[OA \perp [OB$
$\Rightarrow \alpha = 90°$

2.3.

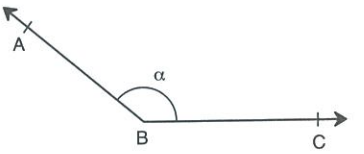
Tüm Açı
Prigon
$\Rightarrow \alpha = 360°$

2.4.



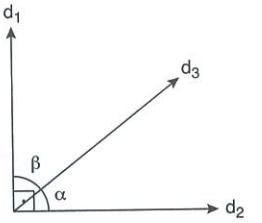
Dar Açı
Acute Angle
$0° < \alpha < 90°$

2.5.



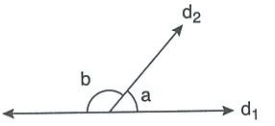
Geniş Açı
Obtuse Angle
$90° < \alpha < 180°$

2.6.



Tümler Açı
(Complementary Angles)
$d_1 \perp d_2$
$\alpha + \beta = 90°$

2.7.



Bütünler Açı
(Supplementary Angles)
$a + b = 180°$

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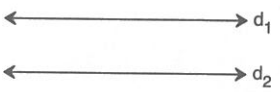
PUZA YAYINLARI
PUZA YAYINLARI

3.



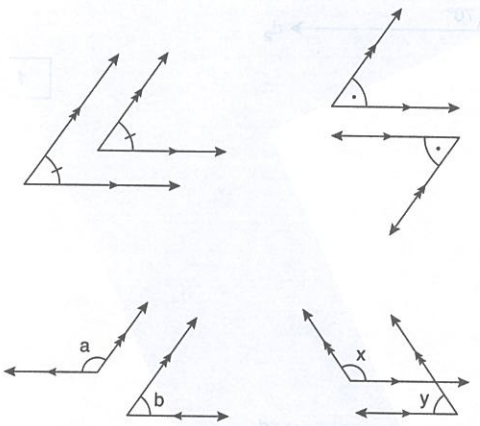
$d_1 \cap d_2 = \varnothing$

$d_1 \,//\, d_2$ Paralel

Parallel

4. Paralel doğrular eş veya bütünlerdir.

Parallel lines are equal orsupplementary angles.

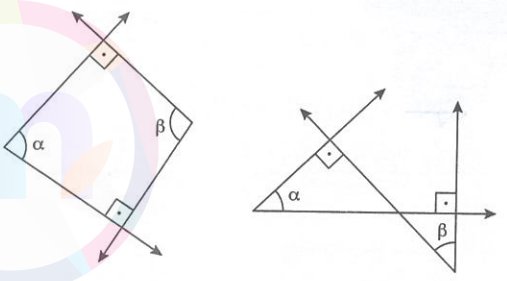


$a + b = 180°$

$x + y = 180°$

5. Dik doğrular eş veya bütünlerdir.

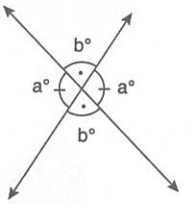
Perpendicular lines are equal or supplementary angles.



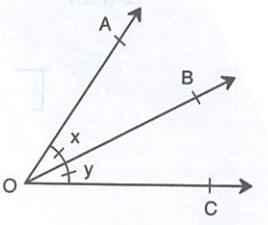
$\alpha + \beta = 180°$

$\alpha = \beta$

6. Ters Açılar *(Vertically Opposite Angles)*



7.



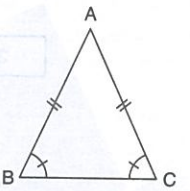
[OB açıortay

[OB bisector

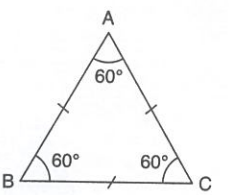
$\Rightarrow x = y$

8. **ÜÇGEN ÇEŞİTLER**

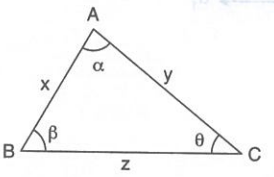
Types of Triangles



İkizkenar üçgen
(isosceles triangle)



Eşkenar üçgen
(equilateral triangle)



$x \neq y \neq z$

$\alpha \neq \beta \neq \theta$

Çeşitkenar üçgen
(scalene triangle)

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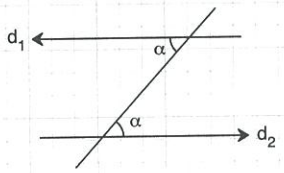
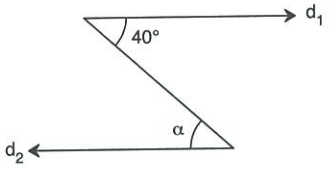
PUZA YAYINLARI

ÖZELLİK|Property 1



$d_1 // d_2$

1.

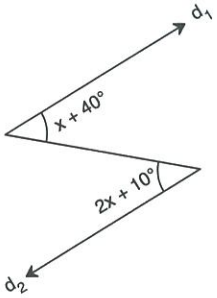


$d_1 // d_2$

$\Rightarrow \alpha = ?$

40

2.

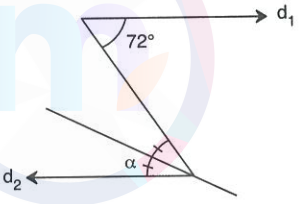


$d_1 // d_2$

$\Rightarrow x = ?$

30

3.

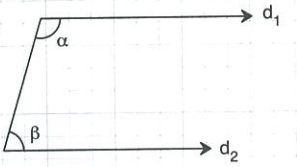


$d_1 // d_2$

$\Rightarrow \alpha = ?$

36

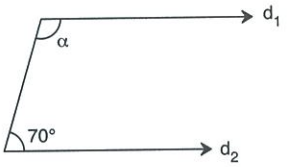
ÖZELLİK|Property 2



$d_1 // d_2$

$\Rightarrow \alpha + \beta = 180°$

1.

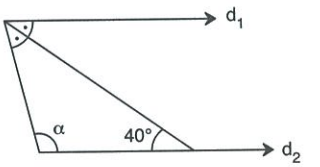


$d_1 // d_2$

$\Rightarrow \alpha = ?$

110

2.

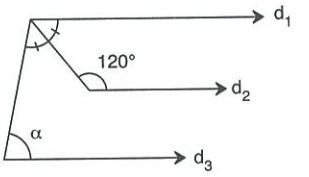


$d_1 // d_2$

$\Rightarrow \alpha = ?$

100

3.



$d_1 // d_2 // d_3$

$\Rightarrow \alpha = ?$

60

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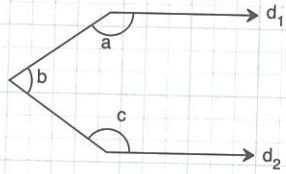
PUZA YAYINLARI
PUZA YAYINLARI

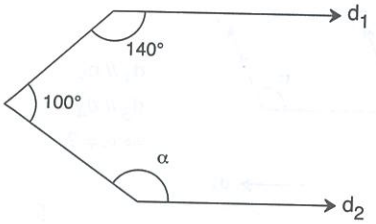
ÖZELLİK|Property 3



$d_1 // d_2$

$a + b + c = 360°$

1.

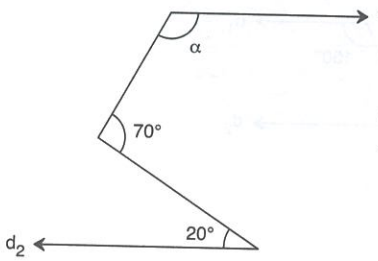


$d_1 // d_2$

$\Rightarrow \alpha = ?$

120

2.

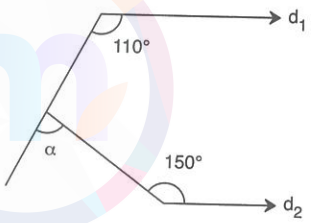


$d_1 // d_2$

$\Rightarrow \alpha = ?$

130

3.

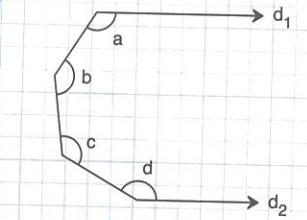


$d_1 // d_2$

$\Rightarrow \alpha = ?$

80

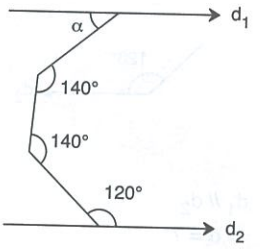
ÖZELLİK|Property 4



$d_1 // d_2$

$a + b + c + d = 540°$

1.

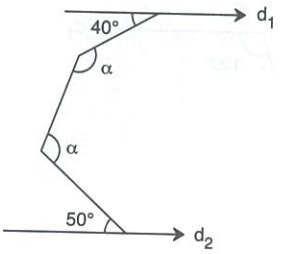


$d_1 // d_2$

$\Rightarrow \alpha = ?$

40

2.

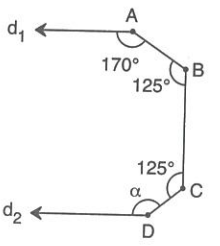


$d_1 // d_2$

$\Rightarrow \alpha = ?$

135

3.



$d_1 // d_2$

$\Rightarrow \alpha = ?$

120

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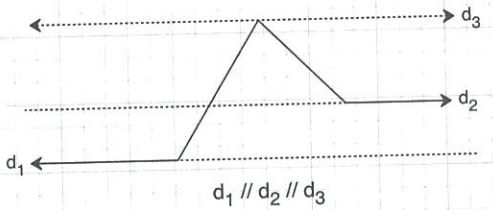
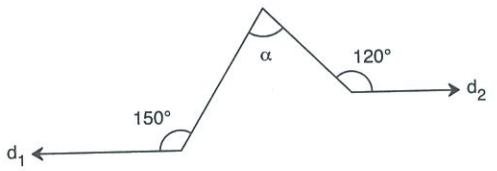
ÖZELLİK|Property 5



$d_1 // d_2 // d_3$

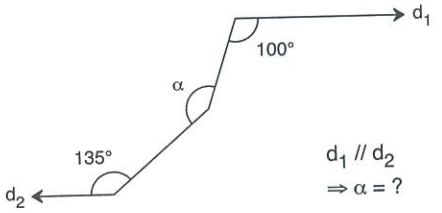
1.



$d_1 // d_2$
$\Rightarrow \alpha = ?$

90

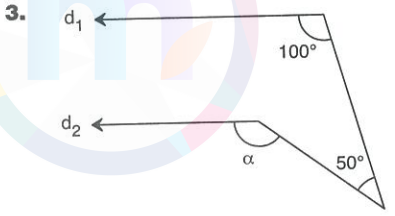
2.



$d_1 // d_2$
$\Rightarrow \alpha = ?$

145

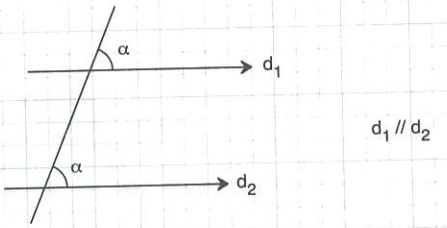
3.



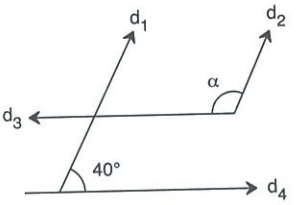
$d_1 // d_2$
$\Rightarrow \alpha = ?$

150

ÖZELLİK|Property 6



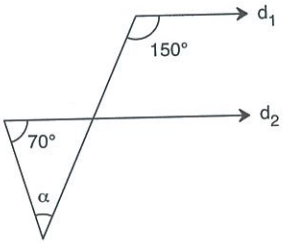
1.



$d_1 // d_2$
$d_3 // d_4$
$\Rightarrow \alpha = ?$

140

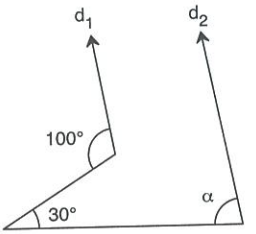
2.



$d_1 // d_2$
$\Rightarrow \alpha = ?$

80

3.



$d_1 // d_2$
$\Rightarrow \alpha = ?$

70

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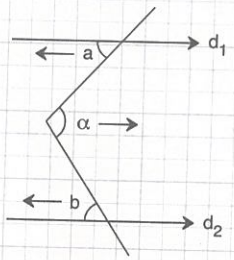
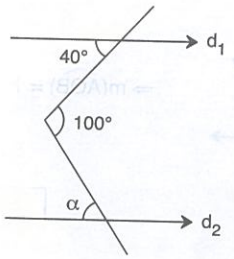
ÖZELLİK|Property 7



$d_1 // d_2$

$\Rightarrow \alpha = a + b$

1.

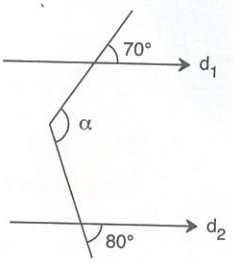


$d_1 // d_2$

$\Rightarrow \alpha = ?$

60

2.

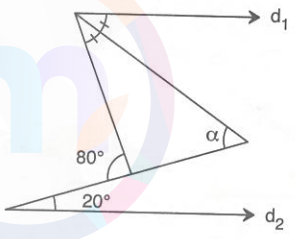


$d_1 // d_2$

$\Rightarrow \alpha = ?$

150

3.



$d_1 // d_2$

$\Rightarrow \alpha = ?$

50

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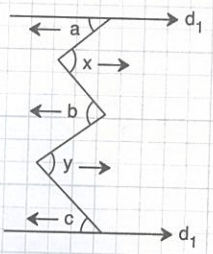
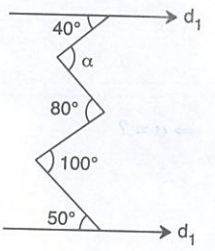
ÖZELLİK|Property 8



$d_1 // d_2$

$a + b + c = x + y$

1.

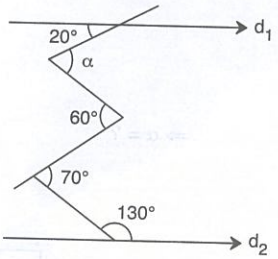


$d_1 // d_2$

$\Rightarrow \alpha = ?$

70

2.

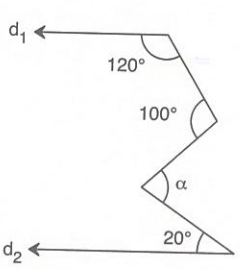


$d_1 // d_2$

$\Rightarrow \alpha = ?$

60

3.



$d_1 // d_2$

$\Rightarrow \alpha = ?$

60

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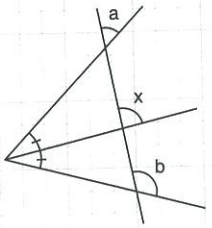
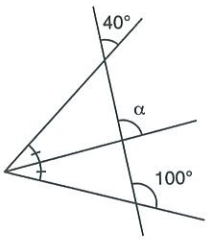
ÖZELLİK|Property 9



$$x = \frac{a+b}{2}$$

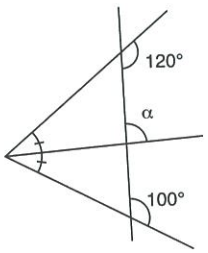
1.



$\Rightarrow \alpha = ?$

70

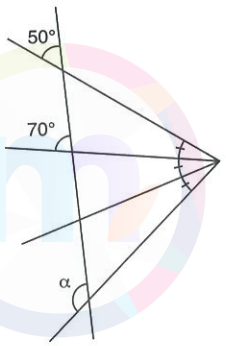
2.



$\Rightarrow \alpha = ?$

80

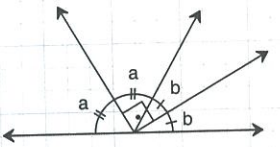
3.



$\Rightarrow \alpha = ?$

110

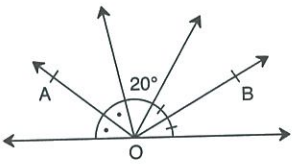
ÖZELLİK|Property 10



$2a + 2b = 180°$

$a + b = 90°$

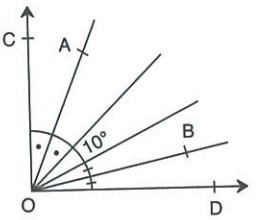
1.



$\Rightarrow m(\widehat{AOB}) = ?$

100

2.

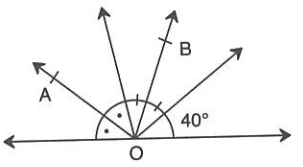


$[CO] \perp [OD]$

$\Rightarrow m(\widehat{AOB}) = ?$

50

3.



$\Rightarrow m(\widehat{AOB}) = ?$

70

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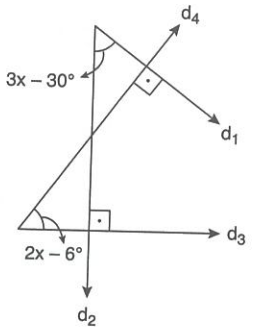
ÖRNEK SORU TÜRLERİ | EXAMPLARY QUESTION TYPES

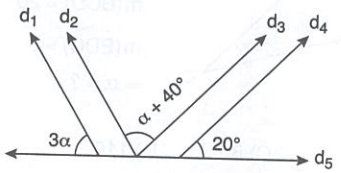
1.



$\Rightarrow x = ?$

24

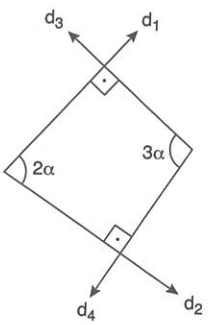
2.



$d_1 // d_2$
$d_3 // d_4$
$\Rightarrow \alpha = ?$

30

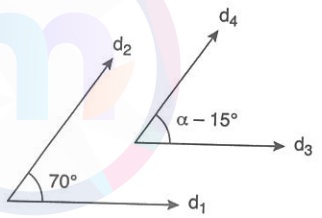
3.



$\Rightarrow \alpha = ?$

36

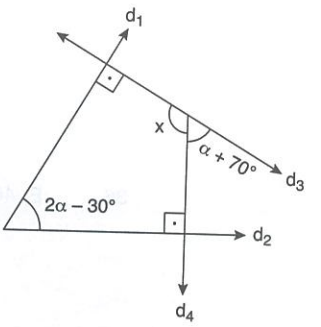
4.



$d_1 // d_3$
$d_2 // d_4$
$\Rightarrow \alpha = ?$

85

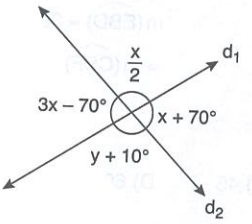
5.



$\Rightarrow x = ?$

10

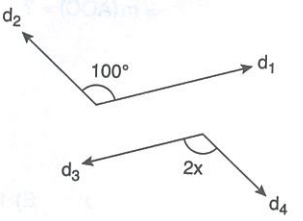
6.



$\Rightarrow y = ?$

25

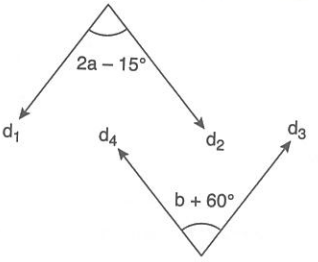
7.



$d_1 // d_3$
$d_2 // d_4$
$\Rightarrow x = ?$

50

8.



$d_1 // d_3$
$d_2 // d_4$
$a + b = 45°$
$\Rightarrow a - b = ?$

35

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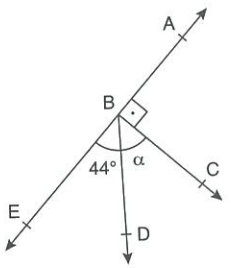
PUZA YAYINLARI

1.



$AE \perp [BC$

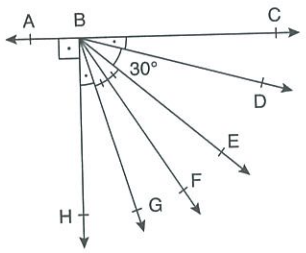
$m(\widehat{EBD}) = 44°$

$m(\widehat{CBD}) = \alpha$

$\Rightarrow \alpha = ?$

A) 20 B) 22 C) 24 D) 36 E) 46

2.



$AC \perp [BH$

$m(\widehat{CBD}) = m(\widehat{HBG})$

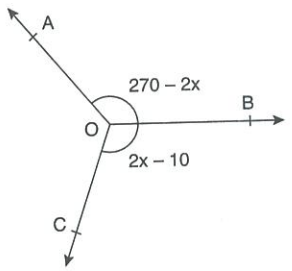
$m(\widehat{GBF}) = m(\widehat{FBE})$

$m(\widehat{EBD}) = 30°$

$\Rightarrow m(\widehat{CBF}) = ?$

A) 15 B) 30 C) 45 D) 60 E) 75

3.



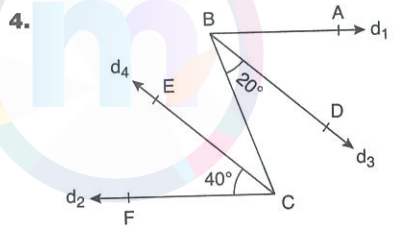
$m(\widehat{AOB}) = 270 - 2x$

$m(\widehat{BOC}) = 2x - 10$

$\Rightarrow m(\widehat{AOC}) = ?$

A) 90 B) 100 C) 110 D) 120 E) 130

4.



$d_1 // d_2$

$d_3 // d_4$

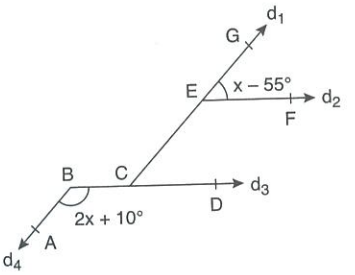
$m(\widehat{DBC}) = 20°$

$m(\widehat{ECF}) = 40°$

$\Rightarrow m(\widehat{ABC}) = ?$

A) 30 B) 40 C) 60 D) 70 E) 80

5.



$d_1 // d_4$

$d_2 // d_3$

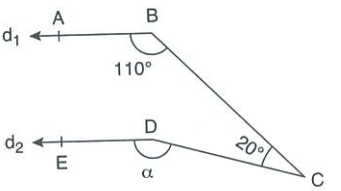
$m(\widehat{GEF}) = x - 55°$

$m(\widehat{ABC}) = 2x + 10°$

$\Rightarrow x = ?$

A) 15 B) 45 C) 60 D) 75 E) 85

6.



$d_1 // d_2$

$m(\widehat{ABC}) = 110°$

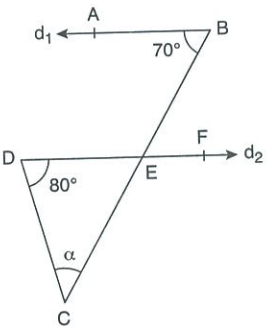
$m(\widehat{BCD}) = 20°$

$m(\widehat{EDC}) = \alpha$

$\Rightarrow \alpha = ?$

A) 50 B) 70 C) 80 D) 110 E) 130

7.



$d_1 // d_2$

$m(\widehat{ABC}) = 70°$

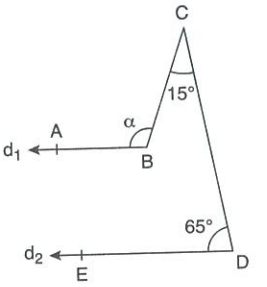
$m(\widehat{EDC}) = 80°$

$m(\widehat{BCD}) = \alpha$

$\Rightarrow \alpha = ?$

A) 30 B) 40 C) 45 D) 50 E) 55

8.



$d_1 // d_2$

$m(\widehat{BCD}) = 15°$

$m(\widehat{EDC}) = 65°$

$m(\widehat{ABC}) = \alpha$

$\Rightarrow \alpha = ?$

A) 70 B) 80 C) 100 D) 110 E) 120

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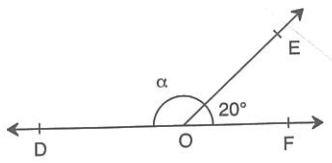
1.

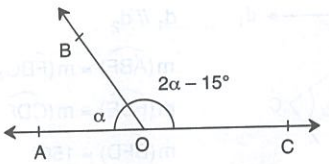


$m(\widehat{EOF}) = 20°$

$\Rightarrow m(\widehat{DOE}) = \alpha = ?$

A) 20 B) 70 C) 120 D) 140 E) 160

2.



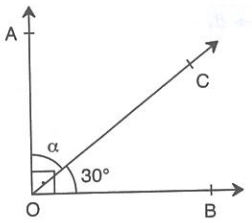
$m(\widehat{AOB}) = \alpha$

$m(\widehat{BOC}) = 2\alpha - 15°$

$\Rightarrow \alpha = ?$

A) 50 B) 55 C) 60 D) 65 E) 75

3.



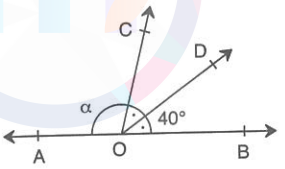
$[OA \perp [OB$

$m(\widehat{COB}) = 30°$

$\Rightarrow m(\widehat{AOC}) = \alpha = ?$

A) 20 B) 30 C) 50 D) 60 E) 150

4.



$m(\widehat{COD}) = m(\widehat{DOB}) = 40°$

$\Rightarrow m(\widehat{AOC}) = \alpha = ?$

A) 40 B) 80 C) 90 D) 100 E) 140

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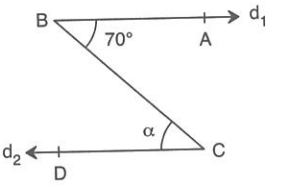
5.



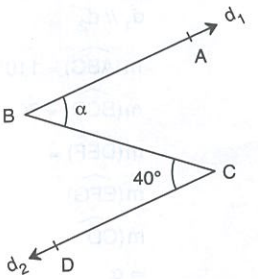
$d_1 // d_2$

$m(\widehat{ABC}) = 70°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 20 B) 30 C) 70 D) 100 E) 110

6.



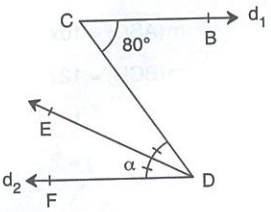
$d_1 // d_2$

$m(\widehat{BCD}) = 40°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 60 E) 140

7.



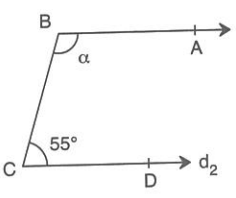
$d_1 // d_2$

$m(\widehat{BCD}) = 80°$

$\Rightarrow m(\widehat{CDE}) = m(\widehat{EDF}) = \alpha = ?$

A) 5 B) 10 C) 40 D) 50 E) 100

8.

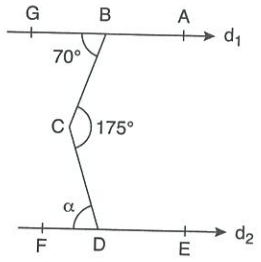


$d_1 // d_2$

$m(\widehat{BCD}) = 55°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 125 B) 115 C) 75 D) 60 E) 55

9. 

$d_1 // d_2$

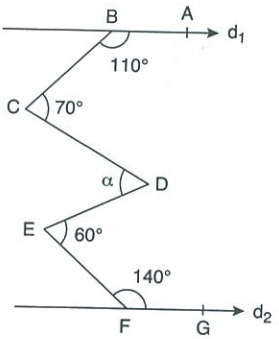
$m(\widehat{BCD}) = 175°$

$m(\widehat{GBC}) = 70°$

$m(\widehat{CDF}) = \alpha$

$\Rightarrow \alpha = ?$

A) 85 B) 95 C) 100 D) 104 E) 105

10. 

$d_1 // d_2$

$m(\widehat{ABC}) = 110°$

$m(\widehat{BCD}) = 70°$

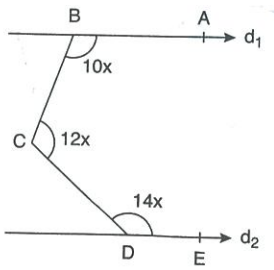
$m(\widehat{DEF}) = 60°$

$m(\widehat{EFG}) = 140°$

$m(\widehat{CDE}) = \alpha$

$\Rightarrow \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

11. 

$d_1 // d_2$

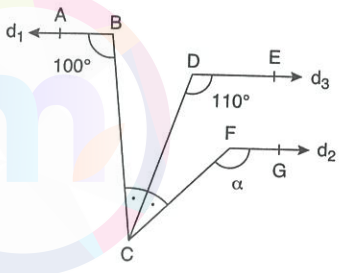
$m(\widehat{ABC}) = 10x$

$m(\widehat{BCD}) = 12x$

$m(\widehat{CDE}) = 14x$

$\Rightarrow m(\widehat{CDE}) = ?$

A) 30 B) 70 C) 80 D) 110 E) 140

12. 

$d_1 // d_2 // d_3$

$m(\widehat{ABC}) = 100°$

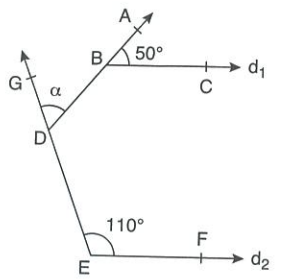
$m(\widehat{CDE}) = 110°$

$m(\widehat{BCD}) = m(\widehat{DCF})$

$m(\widehat{CFG}) = \alpha$

$\Rightarrow \alpha = ?$

A) 110 B) 120 C) 130 D) 140 E) 150

13. 

$d_1 // d_2$

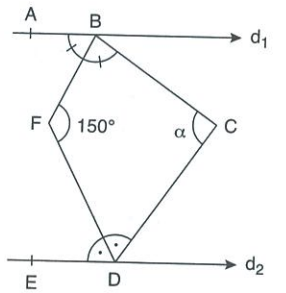
$m(\widehat{ABC}) = 50°$

$m(\widehat{GEF}) = 110°$

$m(\widehat{GDA}) = \alpha$

$\Rightarrow \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

14. 

$d_1 // d_2$

$m(\widehat{ABF}) = m(\widehat{FBC})$

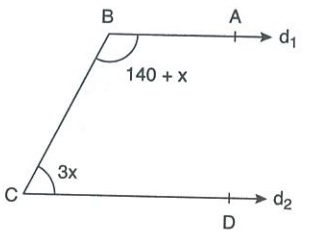
$m(\widehat{FDE}) = m(\widehat{CDF})$

$m(\widehat{BFD}) = 150°$

$m(\widehat{BCD}) = \alpha$

$\Rightarrow \alpha = ?$

A) 60 B) 70 C) 100 D) 110 E) 130

15. 

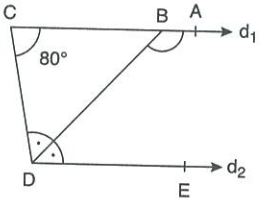
$d_1 // d_2$

$m(\widehat{ABC}) = 140 + x$

$m(\widehat{BCD}) = 3x$

$\Rightarrow x = ?$

A) 5 B) 10 C) 11 D) 12 E) 13

16. 

$d_1 // d_2$

$m(\widehat{ACD}) = 80°$

$m(\widehat{CDB}) = m(\widehat{BDE})$

$m(\widehat{ABD}) = ?$

A) 50 B) 70 C) 100 D) 130 E) 150

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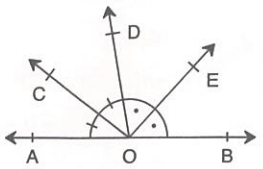
1.



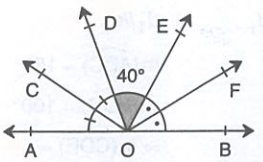
$m(\widehat{AOC}) = m(\widehat{COD})$

$m(\widehat{DOE}) = m(\widehat{EOB})$

$\Rightarrow m(\widehat{COE}) = ?$

A) 30 B) 60 C) 90 D) 120 E) 150

2.



$m(\widehat{AOC}) = m(\widehat{COD})$

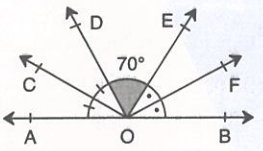
$m(\widehat{DOE}) = 40°$

$m(\widehat{EOF}) = m(\widehat{FOB})$

$\Rightarrow m(\widehat{COF}) = ?$

A) 50 B) 60 C) 100 D) 110 E) 130

3.



$m(\widehat{AOC}) = m(\widehat{COD})$

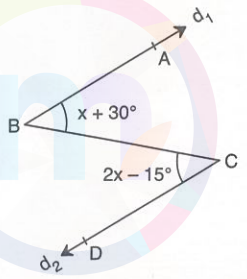
$m(\widehat{DOE}) = 70°$

$m(\widehat{EOF}) = m(\widehat{FOB})$

$\Rightarrow m(\widehat{COF}) = ?$

A) 80 B) 115 C) 125 D) 135 E) 140

4.



$d_1 // d_2$

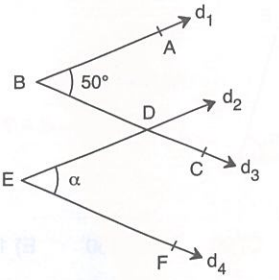
$m(\widehat{ABC}) = x + 30°$

$m(\widehat{BCD}) = 2x - 15°$

$\Rightarrow x = ?$

A) 35 B) 45 C) 50 D) 55 E) 60

5.



$d_1 // d_2$

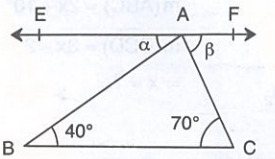
$d_3 // d_4$

$m(\widehat{ABC}) = 50°$

$\Rightarrow m(\widehat{DEF}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 70

6.



[EF] // [BC]

$m(\widehat{EAB}) = \alpha$

$m(\widehat{ABC}) = 40°$

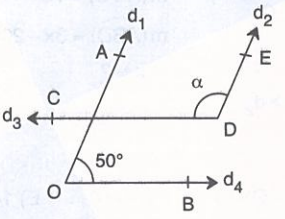
$m(\widehat{FAC}) = \beta$

$m(\widehat{ACB}) = 70°$

$\Rightarrow \beta - \alpha = ?$

A) 30 B) 40 C) 50 D) 60 E) 70

7.



$d_1 // d_2$

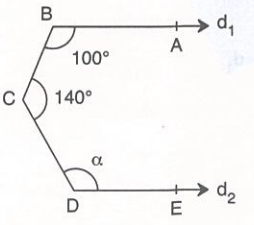
$d_3 // d_4$

$m(\widehat{AOB}) = 50°$

$\Rightarrow m(\widehat{EDC}) = \alpha = ?$

A) 130 B) 100 C) 60 D) 50 E) 40

8.



$d_1 // d_2$

$m(\widehat{ABC}) = 100°$

$m(\widehat{BCD}) = 140°$

$\Rightarrow m(\widehat{CDE}) = \alpha = ?$

A) 100 B) 110 C) 120 D) 130 E) 140

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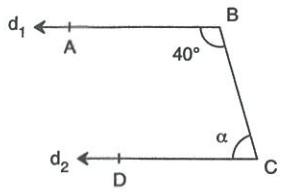
PUZA YAYINLARI
PUZA YAYINLARI

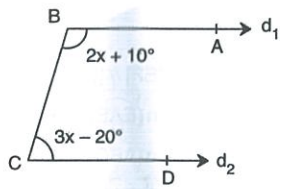
9. 

$d_1 // d_2$

$m(\widehat{ABC}) = 40°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 40 B) 50 C) 90 D) 130 E) 140

10. 

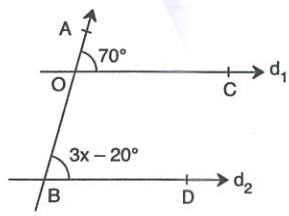
$d_1 // d_2$

$m(\widehat{ABC}) = 2x + 10°$

$m(\widehat{BCD}) = 3x - 20°$

$\Rightarrow x = ?$

A) 30 B) 34 C) 38 D) 40 E) 42

11. 

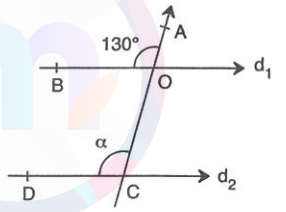
$d_1 // d_2$

$m(\widehat{AOC}) = 70°$

$m(\widehat{ABD}) = 3x - 20°$

$\Rightarrow x = ?$

A) 30 B) 70 C) 80 D) 110 E) 140

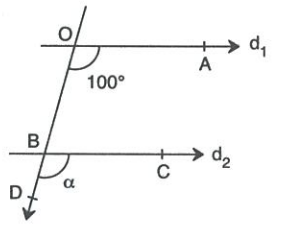
12. 

$d_1 // d_2$

$m(\widehat{AOB}) = 130°$

$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 130 B) 110 C) 100 D) 50 E) 40

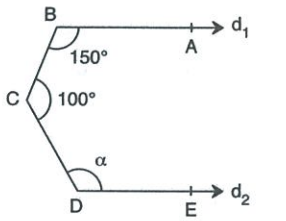
13. 

$d_1 // d_2$

$m(\widehat{AOD}) = 100°$

$\Rightarrow m(\widehat{DBC}) = \alpha = ?$

A) 110 B) 100 C) 80 D) 70 E) 50

14. 

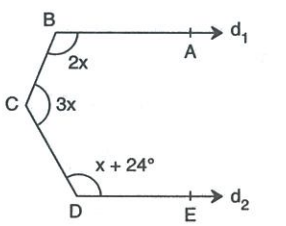
$d_1 // d_2$

$m(\widehat{ABC}) = 150°$

$m(\widehat{BCD}) = 100°$

$\Rightarrow m(\widehat{CDE}) = \alpha = ?$

A) 60 B) 70 C) 100 D) 110 E) 130

15. 

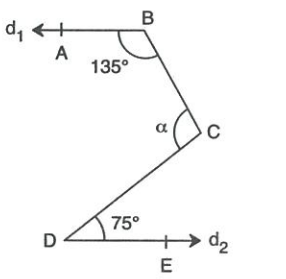
$d_1 // d_2$

$m(\widehat{ABC}) = 2x$

$m(\widehat{CDE}) = x + 24°$

$\Rightarrow m(\widehat{BCD}) = 3x = ?$

A) 56 B) 60 C) 108 D) 168 E) 170

16. 

$d_1 // d_2$

$m(\widehat{ABC}) = 135°$

$m(\widehat{CDE}) = 75°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 75 B) 80 C) 105 D) 120 E) 135

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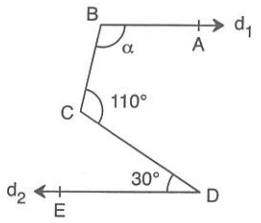
9.



$d_1 // d_2$

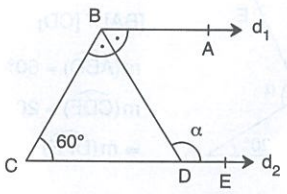
$m(\widehat{BCD}) = 110°$

$m(\widehat{CDE}) = 30°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 90 B) 100 C) 120 D) 130 E) 140

10.



$d_1 // d_2$

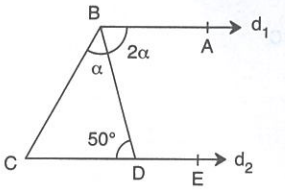
$m(\widehat{ABD}) = m(\widehat{CDB})$

$m(\widehat{BCD}) = 60°$

$\Rightarrow m(\widehat{BDE}) = \alpha = ?$

A) 100 B) 110 C) 120 D) 130 E) 140

11.



$d_1 // d_2$

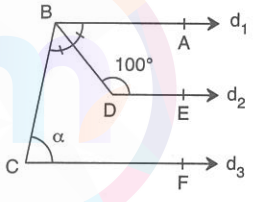
$m(\widehat{ABD}) = 2 \cdot m(\widehat{CBD})$

$m(\widehat{BDC}) = 50°$

$\Rightarrow m(\widehat{BCD}) = ?$

A) 30 B) 50 C) 75 D) 105 E) 115

12.



$d_1 // d_2 // d_3$

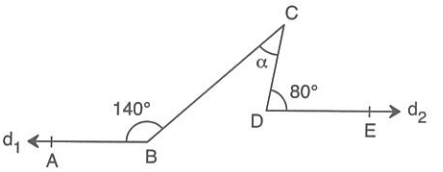
$m(\widehat{ABD}) = m(\widehat{DBC})$

$m(\widehat{BDE}) = 100°$

$\Rightarrow m(\widehat{BCF}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

13.



$d_1 // d_2$

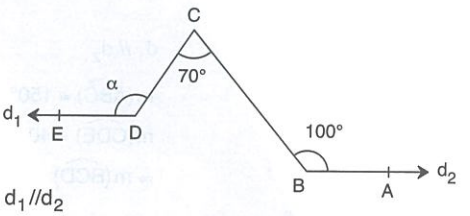
$m(\widehat{ABC}) = 140°$

$m(\widehat{CDE}) = 80°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 30 B) 40 C) 50 D) 60 E) 70

14.



$d_1 // d_2$

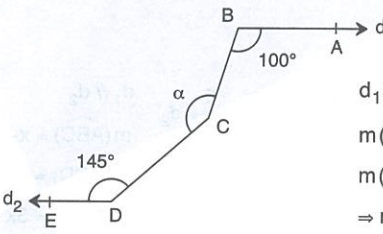
$m(\widehat{ABC}) = 100°$

$m(\widehat{BCD}) = 70°$

$\Rightarrow m(\widehat{CDE}) = \alpha = ?$

A) 150 B) 120 C) 110 D) 100 E) 90

15.



$d_1 // d_2$

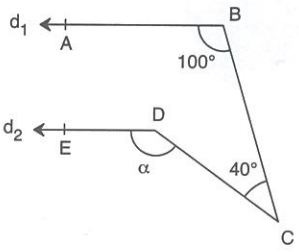
$m(\widehat{ABC}) = 100°$

$m(\widehat{CDE}) = 145°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 155 B) 145 C) 135 D) 125 E) 115

16.



$d_1 // d_2$

$m(\widehat{ABC}) = 100°$

$m(\widehat{BCD}) = 40°$

$\Rightarrow m(\widehat{EDC}) = \alpha = ?$

A) 40 B) 70 C) 100 D) 130 E) 140

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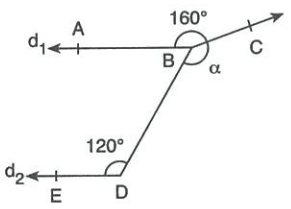
PUZA YAYINLARI

1.



$d_1 \parallel d_2$

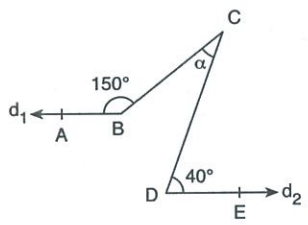
$m(\widehat{ABC}) = 160°$

$m(\widehat{EDB}) = 120°$

$\Rightarrow m(\widehat{DBC}) = \alpha = ?$

A) 100 B) 110 C) 120 D) 140 E) 150

2.



$d_1 \parallel d_2$

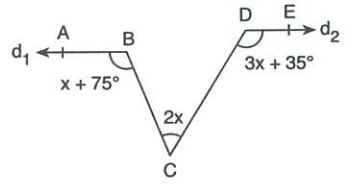
$m(\widehat{ABC}) = 150°$

$m(\widehat{CDE}) = 40°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

3.



$d_1 \parallel d_2$

$m(\widehat{ABC}) = x + 75°$

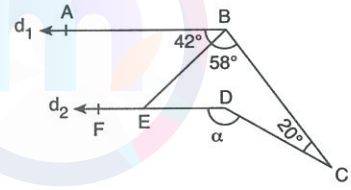
$m(\widehat{BCD}) = 2x$

$m(\widehat{CDE}) = 3x + 35°$

$\Rightarrow x = ?$

A) 20 B) 25 C) 30 D) 35 E) 40

4.



$d_1 \parallel d_2$

$m(\widehat{ABE}) = 42°$

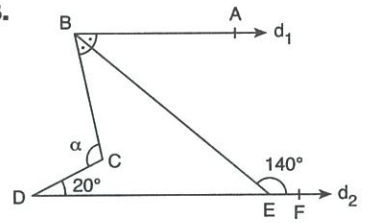
$m(\widehat{EBC}) = 58°$

$m(\widehat{BCD}) = 20°$

$\Rightarrow m(\widehat{FDC}) = \alpha = ?$

A) 130 B) 124 C) 120 D) 116 E) 110

5.



$d_1 \parallel d_2$

$m(\widehat{ABE}) = m(\widehat{CBE})$

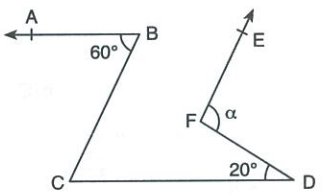
$m(\widehat{CDF}) = 20°$

$m(\widehat{BEF}) = 140°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 70 B) 80 C) 85 D) 90 E) 100

6.



[BC] // [FE]

[BA] // [CD]

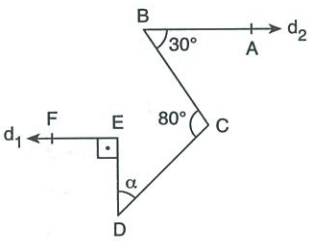
$m(\widehat{ABC}) = 60°$

$m(\widehat{CDF}) = 20°$

$\Rightarrow m(\widehat{DFE}) = \alpha = ?$

A) 40 B) 50 C) 80 D) 100 E) 120

7.



$d_1 \parallel d_2$

$[DE] \perp [EF]$

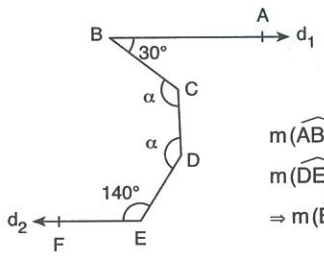
$m(\widehat{ABC}) = 30°$

$m(\widehat{BCD}) = 80°$

$\Rightarrow m(\widehat{CDE}) = \alpha = ?$

A) 30 B) 40 C) 50 D) 60 E) 70

8.



$d_1 \parallel d_2$

$m(\widehat{ABC}) = 30°$

$m(\widehat{DEF}) = 140°$

$\Rightarrow m(\widehat{BCD}) = m(\widehat{CDE}) = \alpha = ?$

A) 130 B) 125 C) 120 D) 115 E) 110

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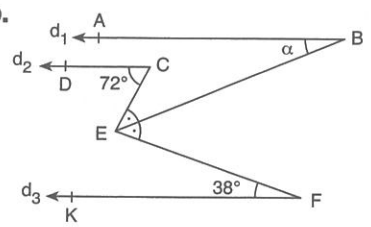
9.



$d_1 // d_2 // d_3$

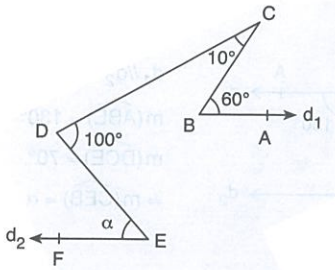
$m(\widehat{DCE}) = 72°$

$m(\widehat{EFK}) = 38°$

$\Rightarrow m(\widehat{ABE}) = \alpha = ?$

A) 12 B) 15 C) 17 D) 19 E) 21

10.



$d_1 // d_2$

$m(\widehat{ABC}) = 60°$

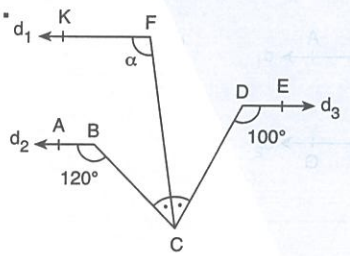
$m(\widehat{BCD}) = 10°$

$m(\widehat{CDE}) = 100°$

$\Rightarrow m(\widehat{DEF}) = \alpha = ?$

A) 40 B) 50 C) 60 D) 70 E) 80

11.



$d_1 // d_2 // d_3$

$m(\widehat{EDC}) = 100°$

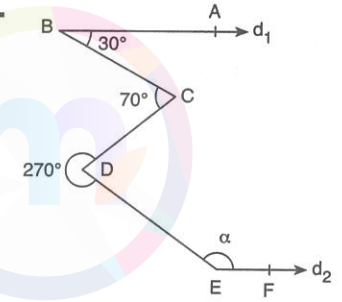
$m(\widehat{ABC}) = 120°$

$m(\widehat{BCF}) = m(\widehat{FCD})$

$\Rightarrow m(\widehat{KFC}) = \alpha = ?$

A) 60 B) 80 C) 100 D) 120 E) 140

12.



$d_1 // d_2$

$m(\widehat{ABC}) = 30°$

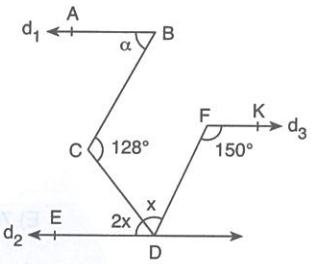
$m(\widehat{BCD}) = 70°$

$m(\widehat{CDE}) = 270°$

$\Rightarrow m(\widehat{DEF}) = \alpha = ?$

A) 120 B) 130 C) 145 D) 165 E) 170

13.



$d_1 // d_2 // d_3$

$m(\widehat{BCD}) = 128°$

$m(\widehat{DFK}) = 150°$

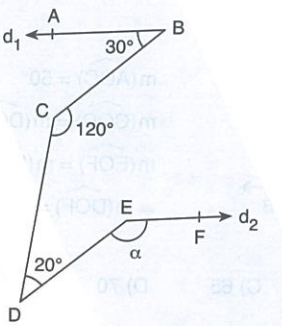
$m(\widehat{CDF}) = x$

$m(\widehat{CDE}) = 2x$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 28 B) 32 C) 38 D) 40 E) 42

14.



$d_1 // d_2$

$m(\widehat{ABC}) = 30°$

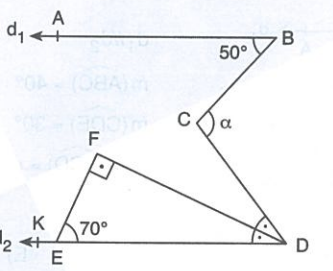
$m(\widehat{BCD}) = 120°$

$m(\widehat{CDE}) = 20°$

$\Rightarrow m(\widehat{DEF}) = \alpha = ?$

A) 100 B) 110 C) 120 D) 130 E) 140

15.



$d_1 // d_2$

$[EF] \perp [FD]$

$m(\widehat{ABC}) = 50°$

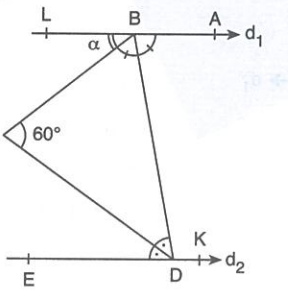
$m(\widehat{FED}) = 70°$

$m(\widehat{CDF}) = m(\widehat{FDK})$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 90 B) 80 C) 70 D) 60 E) 50

16.



$d_1 // d_2$

$m(\widehat{BCD}) = 60°$

$m(\widehat{CBD}) = m(\widehat{DBA})$

$m(\widehat{EDC}) = m(\widehat{CDB})$

$\Rightarrow m(\widehat{CBL}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 60 E) 80

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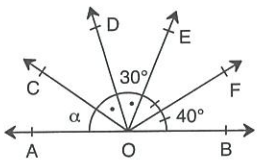
1.



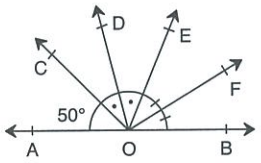
$m(\widehat{COD}) = m(\widehat{DOE}) = 30°$

$m(\widehat{EOF}) = m(\widehat{FOB}) = 40°$

$\Rightarrow m(\widehat{AOC}) = \alpha = ?$

A) 40 B) 50 C) 55 D) 60 E) 70

2.



$m(\widehat{AOC}) = 50°$

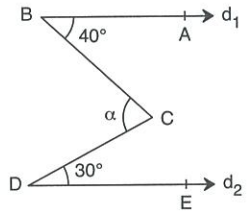
$m(\widehat{COD}) = m(\widehat{DOE})$

$m(\widehat{EOF}) = m(\widehat{FOD})$

$\Rightarrow m(\widehat{DOF}) = ?$

A) 50 B) 60 C) 65 D) 70 E) 90

3.



$d_1 // d_2$

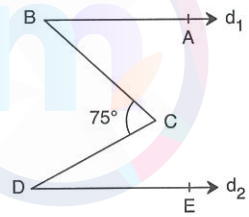
$m(\widehat{ABC}) = 40°$

$m(\widehat{CDE}) = 30°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 30 B) 40 C) 50 D) 70 E) 110

4.



$d_1 // d_2$

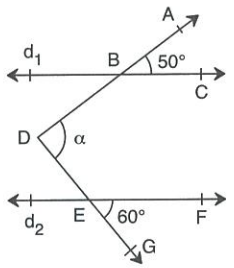
$2m(\widehat{ABC}) = 3m(\widehat{CDE})$

$m(\widehat{BCD}) = 75°$

$\Rightarrow m(\widehat{CDE}) = ?$

A) 15 B) 30 C) 45 D) 50 E) 55

5.



$d_1 // d_2$

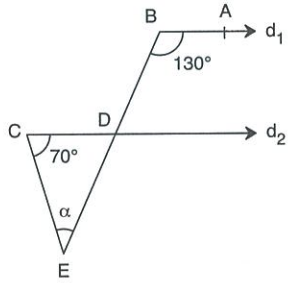
$m(\widehat{ABC}) = 50°$

$m(\widehat{FEG}) = 60°$

$\Rightarrow m(\widehat{ADG}) = \alpha = ?$

A) 50 B) 55 C) 60 D) 100 E) 110

6.



$d_1 // d_2$

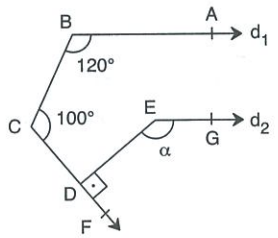
$m(\widehat{ABE}) = 130°$

$m(\widehat{DCE}) = 70°$

$\Rightarrow m(\widehat{CEB}) = \alpha = ?$

A) 50 B) 60 C) 70 D) 80 E) 90

7.



$d_1 // d_2$

$[ED] \perp [CF$

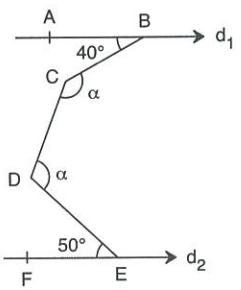
$m(\widehat{ABC}) = 120°$

$m(\widehat{BCF}) = 100°$

$\Rightarrow m(\widehat{DEG}) = \alpha = ?$

A) 130 B) 100 C) 60 D) 50 E) 40

8.



$d_1 // d_2$

$m(\widehat{ABC}) = 40°$

$m(\widehat{DEF}) = 50°$

$\Rightarrow m(\widehat{BCD}) = m(\widehat{CDE}) = \alpha = ?$

A) 115 B) 125 C) 135 D) 145 E) 150

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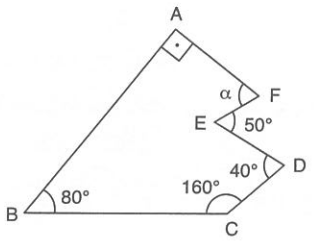
9.



$m(\widehat{EDC}) = 40°$

$m(\widehat{ABC}) = 80°$

$m(\widehat{FED}) = 50°$

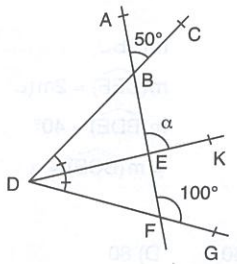
$m(\widehat{BCD}) = 160°$

$[FA] \perp [AB]$

$\Rightarrow m(\widehat{AFE}) = \alpha = ?$

A) 40 B) 50 C) 60 D) 70 E) 80

10.



$m(\widehat{ABC}) = 50°$

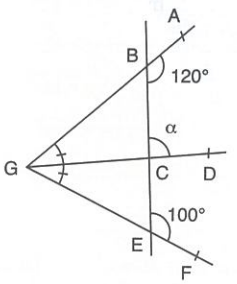
$m(\widehat{AFG}) = 100°$

$m(\widehat{CDK}) = m(\widehat{KDG})$

$\Rightarrow m(\widehat{AEK}) = \alpha = ?$

A) 60 B) 70 C) 75 D) 80 E) 85

11.



$m(\widehat{ABE}) = 120°$

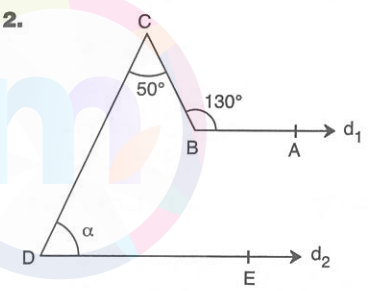
$m(\widehat{BEF}) = 100°$

$m(\widehat{AGD}) = m(\widehat{DGF})$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 110 B) 100 C) 80 D) 60 E) 50

12.



$d_1 // d_2$

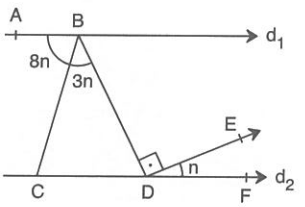
$m(\widehat{ABC}) = 130°$

$m(\widehat{BCD}) = 50°$

$\Rightarrow m(\widehat{CDE}) = \alpha = ?$

A) 130 B) 100 C) 90 D) 80 E) 70

13.



$d_1 // d_2$

$[BD] \perp [DE$

$m(\widehat{EDF}) = n$

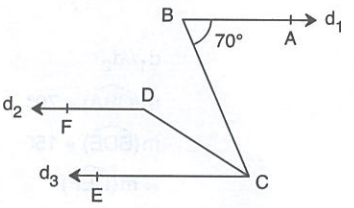
$m(\widehat{ABC}) = 8n$

$m(\widehat{CBD}) = 3n$

$\Rightarrow n = ?$

A) 9 B) 20 C) 25 D) 30 E) 35

14.



$d_1 // d_2 // d_3$

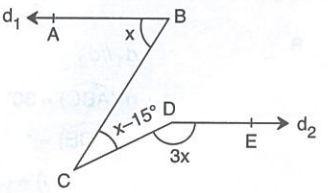
$4m(\widehat{BCD}) = 3m(\widehat{DCE})$

$m(\widehat{ABC}) = 70°$

$\Rightarrow m(\widehat{CDF}) = \alpha = ?$

A) 130 B) 140 C) 150 D) 160 E) 170

15.



$d_1 // d_2$

$m(\widehat{ABC}) = x$

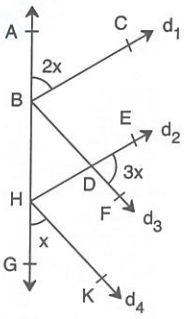
$m(\widehat{BCD}) = x - 15°$

$m(\widehat{CDE}) = 3x$

$\Rightarrow x = ?$

A) 45 B) 50 C) 55 D) 60 E) 65

16.



$d_1 // d_2$

$d_3 // d_4$

$m(\widehat{ABC}) = 2x$

$m(\widehat{EDF}) = 3x$

$\Rightarrow m(\widehat{GHK}) = x = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

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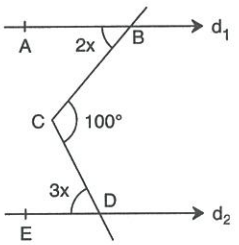
1.



$d_1 // d_2$

$m(\widehat{ABC}) = 2x$

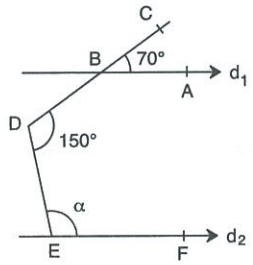
$m(\widehat{CDE}) = 3x$

$m(\widehat{BCD}) = 100°$

$\Rightarrow x = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

2.



$d_1 // d_2$

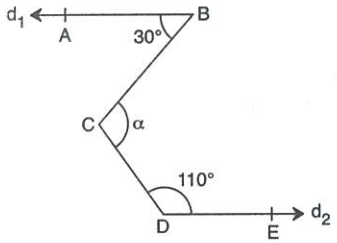
$m(\widehat{CBA}) = 70°$

$m(\widehat{BDE}) = 150°$

$\Rightarrow m(\widehat{DEF}) = \alpha = ?$

A) 40 B) 60 C) 80 D) 100 E) 110

3.



$d_1 // d_2$

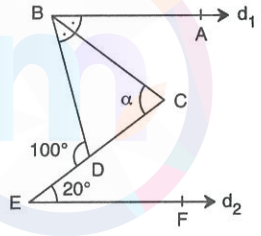
$m(\widehat{ABC}) = 30°$

$m(\widehat{CDE}) = 110°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 140 B) 130 C) 120 D) 110 E) 100

4.



$d_1 // d_2$

$m(\widehat{ABC}) = m(\widehat{CBD})$

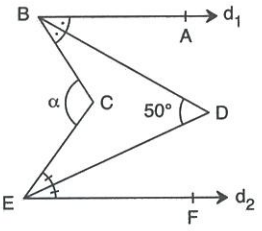
$m(\widehat{BDE}) = 100°$

$m(\widehat{CEF}) = 20°$

$\Rightarrow m(\widehat{BCE}) = \alpha = ?$

A) 90 B) 80 C) 70 D) 60 E) 50

5.



$d_1 // d_2$

$m(\widehat{ABD}) = m(\widehat{CBD})$

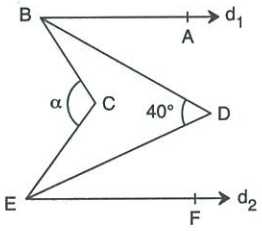
$m(\widehat{CED}) = m(\widehat{DEF})$

$m(\widehat{BDE}) = 50°$

$\Rightarrow m(\widehat{BCE}) = \alpha = ?$

A) 25 B) 50 C) 75 D) 90 E) 100

6.



$d_1 // d_2$

$m(\widehat{ABC}) = 2m(\widehat{CBD})$

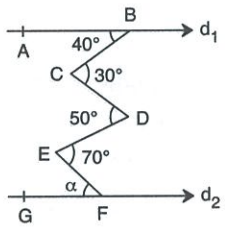
$m(\widehat{CEF}) = 2m(\widehat{DEC})$

$m(\widehat{BDE}) = 40°$

$\Rightarrow m(\widehat{BCE}) = \alpha = ?$

A) 20 B) 40 C) 60 D) 80 E) 120

7.



$d_1 // d_2$

$m(\widehat{ABC}) = 40°$

$m(\widehat{BCD}) = 30°$

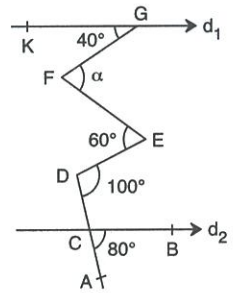
$m(\widehat{CDE}) = 50°$

$m(\widehat{DEF}) = 70°$

$\Rightarrow m(\widehat{EFG}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

8.



$d_1 // d_2$

$m(\widehat{KGF}) = 40°$

$m(\widehat{FED}) = 60°$

$m(\widehat{EDC}) = 100°$

$m(\widehat{BCA}) = 80°$

$\Rightarrow m(\widehat{GFE}) = \alpha = ?$

A) 50 B) 60 C) 70 D) 80 E) 90

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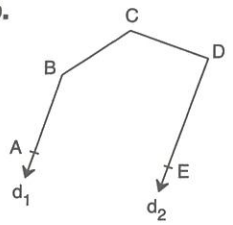
9.



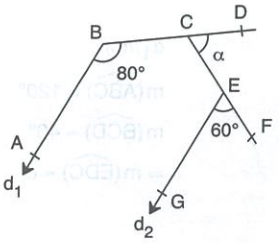
$d_1 // d_2$

$3m(\widehat{ABC}) = 4m(\widehat{BCD}) = 6m(\widehat{CDE})$

$\Rightarrow m(\widehat{BCD}) = ?$

A) 40 B) 80 C) 120 D) 160 E) 200

10.



$d_1 // d_2$

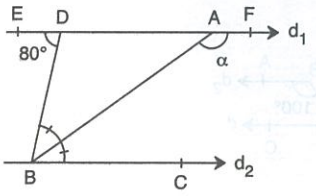
$m(\widehat{ABD}) = 80°$

$m(\widehat{FEG}) = 60°$

$\Rightarrow m(\widehat{DCF}) = \alpha = ?$

A) 35 B) 30 C) 25 D) 20 E) 10

11.



$d_1 // d_2$

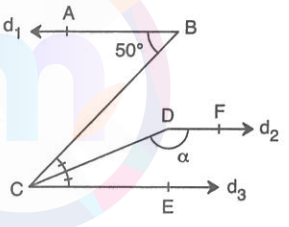
$m(\widehat{EDB}) = 80°$

$m(\widehat{DBA}) = m(\widehat{ABC})$

$\Rightarrow m(\widehat{FAB}) = \alpha = ?$

A) 100 B) 110 C) 120 D) 130 E) 140

12.



$d_1 // d_2 // d_3$

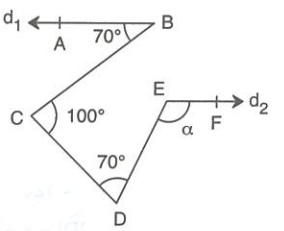
$m(\widehat{ABC}) = 50°$

$m(\widehat{BCD}) = m(\widehat{DCE})$

$\Rightarrow m(\widehat{CDF}) = \alpha = ?$

A) 130 B) 145 C) 155 D) 165 E) 175

13.



$d_1 // d_2$

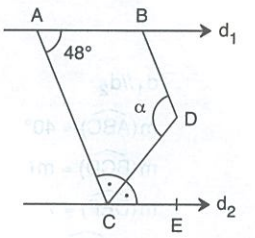
$m(\widehat{ABC}) = m(\widehat{CDE}) = 70°$

$m(\widehat{BCD}) = 100°$

$\Rightarrow m(\widehat{DEF}) = \alpha = ?$

A) 100 B) 110 C) 120 D) 130 E) 140

14.



$d_1 // d_2$

[AC] // [BD]

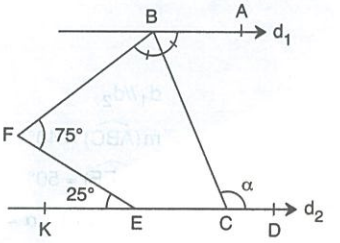
$m(\widehat{BAC}) = 48°$

$m(\widehat{ACD}) = m(\widehat{DCE})$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 48 B) 66 C) 98 D) 104 E) 114

15.



$d_1 // d_2$

$m(\widehat{FEK}) = 25°$

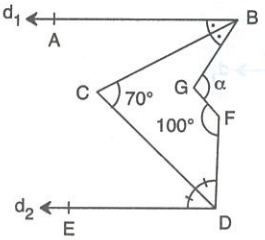
$m(\widehat{BFE}) = 75°$

$m(\widehat{FBC}) = m(\widehat{CBA})$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 50 B) 60 C) 105 D) 115 E) 125

16.



$d_1 // d_2$

$m(\widehat{ABC}) = m(\widehat{CBG})$

$m(\widehat{FDC}) = m(\widehat{CDE})$

$m(\widehat{GFD}) = 100°$

$m(\widehat{BCD}) = 70°$

$\Rightarrow m(\widehat{BGF}) = \alpha = ?$

A) 30 B) 35 C) 45 D) 55 E) 60

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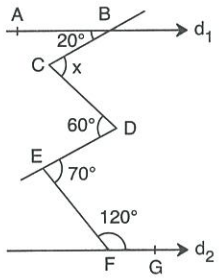
1.



$d_1 // d_2$

$m(\widehat{ABC}) = 20°$

$m(\widehat{CDE}) = 60°$

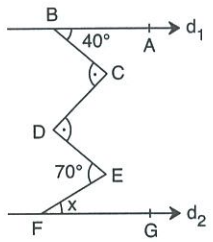
$m(\widehat{DEF}) = 70°$

$m(\widehat{EFG}) = 120°$

$\Rightarrow m(\widehat{BCD}) = x = ?$

A) 60 B) 70 C) 80 D) 100 E) 110

2.



$d_1 // d_2$

$m(\widehat{ABC}) = 40°$

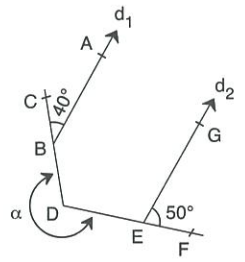
$m(\widehat{BCD}) = m(\widehat{CDE})$

$m(\widehat{DEF}) = 70°$

$\Rightarrow m(\widehat{EFG}) = x = ?$

A) 20 B) 30 C) 40 D) 70 E) 110

3.



$d_1 // d_2$

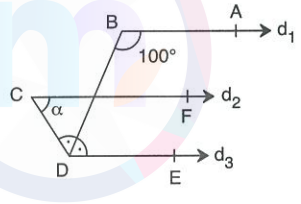
$m(\widehat{ABC}) = 40°$

$m(\widehat{GEF}) = 50°$

$\Rightarrow m(\widehat{CDF}) = \alpha = ?$

A) 90 B) 180 C) 240 D) 270 E) 290

4.



$d_1 // d_2 // d_3$

$m(\widehat{ABD}) = 100°$

$m(\widehat{CDB}) = m(\widehat{BDE})$

$\Rightarrow m(\widehat{FCD}) = \alpha = ?$

A) 110 B) 90 C) 70 D) 60 E) 20

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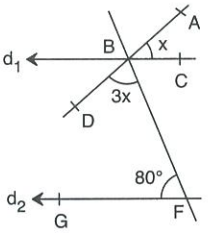
5.



$d_1 // d_2$

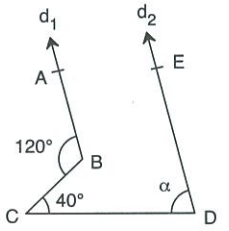
$m(\widehat{DBF}) = 3m(\widehat{ABC})$

$m(\widehat{BFG}) = 80°$

$\Rightarrow m(\widehat{ABC}) = x = ?$

A) 25 B) 20 C) 18 D) 15 E) 10

6.



$d_1 // d_2$

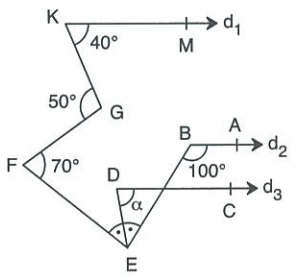
$m(\widehat{ABC}) = 120°$

$m(\widehat{BCD}) = 40°$

$\Rightarrow m(\widehat{EDC}) = \alpha = ?$

A) 60 B) 70 C) 80 D) 90 E) 110

7.



$d_1 // d_2 // d_3$

$m(\widehat{MKG}) = 40°$

$m(\widehat{KGF}) = 50°$

$m(\widehat{GFE}) = 70°$

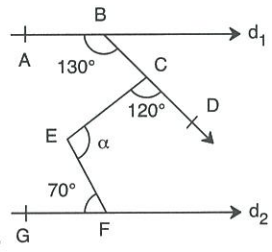
$m(\widehat{FED}) = m(\widehat{DEB})$

$m(\widehat{ABE}) = 100°$

$\Rightarrow m(\widehat{EDC}) = \alpha = ?$

A) 90 B) 80 C) 70 D) 60 E) 50

8.



$d_1 // d_2$

$m(\widehat{ABD}) = 130°$

$m(\widehat{DCE}) = 120°$

$m(\widehat{EFG}) = 70°$

$\Rightarrow m(\widehat{CEF}) = \alpha = ?$

A) 90 B) 80 C) 70 D) 60 E) 50

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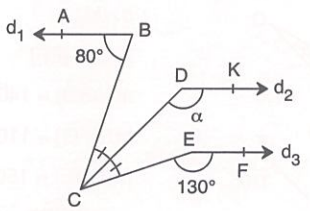
9.



$d_1 // d_2 // d_3$

$m(\widehat{ABC}) = 80°$

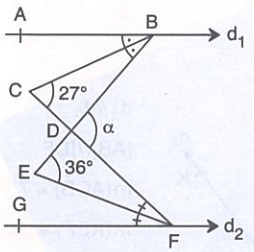
$m(\widehat{CEF}) = 130°$

$m(\widehat{BCD}) = m(\widehat{DCE})$

$\Rightarrow m(\widehat{CDK}) = \alpha = ?$

A) 105 B) 110 C) 115 D) 120 E) 125

10.



$d_1 // d_2$

$m(\widehat{ABC}) = m(\widehat{CBE})$

$m(\widehat{CFE}) = m(\widehat{EFG})$

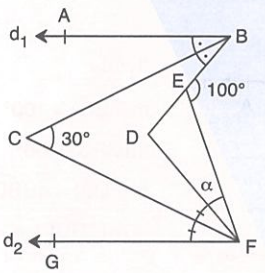
$m(\widehat{BCF}) = 27°$

$m(\widehat{BEF}) = 36°$

$\Rightarrow m(\widehat{BDF}) = \alpha = ?$

A) 38 B) 42 C) 63 D) 72 E) 81

11.



$d_1 // d_2$

$m(\widehat{ABC}) = m(\widehat{CBD})$

$m(\widehat{DFC}) = m(\widehat{CFG})$

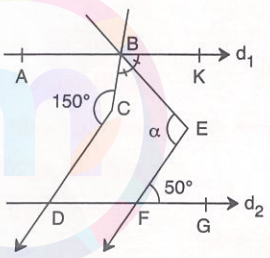
$m(\widehat{BEF}) = 100°$

$m(\widehat{BCF}) = 30°$

$\Rightarrow m(\widehat{DFE}) = \alpha = ?$

A) 30 B) 35 C) 40 D) 45 E) 50

12.



$d_1 // d_2$

[CD//[EF

$m(\widehat{BCD}) = 150°$

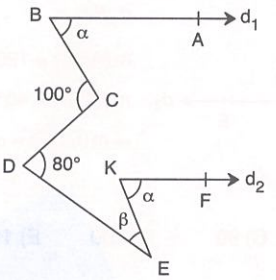
$m(\widehat{EFG}) = 50°$

$m(\widehat{CBE}) = m(\widehat{EBK})$

$\Rightarrow m(\widehat{BEF}) = \alpha = ?$

A) 120 B) 110 C) 100 D) 90 E) 80

13.



$d_1 // d_2$

$m(\widehat{BCD}) = 100°$

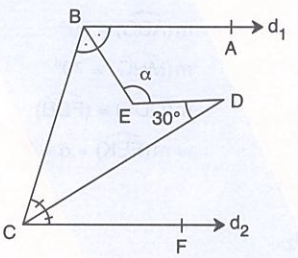
$m(\widehat{CDE}) = 80°$

$m(\widehat{ABC}) = m(\widehat{EKF}) = \alpha$

$\Rightarrow m(\widehat{DEK}) = \beta = ?$

A) 20 B) 25 C) 30 D) 35 E) 40

14.



$d_1 // d_2$

$m(\widehat{ABE}) = m(\widehat{EBC})$

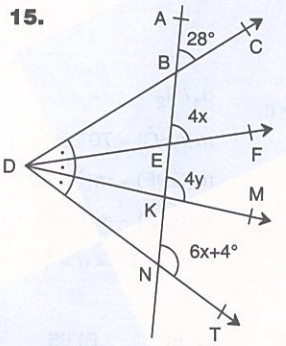
$m(\widehat{BCD}) = m(\widehat{DCF})$

$m(\widehat{EDC}) = 30°$

$\Rightarrow m(\widehat{BED}) = \alpha = ?$

A) 90 B) 100 C) 110 D) 120 E) 130

15.



$m(\widehat{CDF}) = m(\widehat{FDM}) = m(\widehat{MDT})$

$m(\widehat{ABC}) = 28°$

$m(\widehat{AEF}) = 4x$

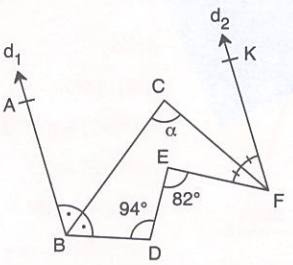
$m(\widehat{AKM}) = 4y$

$m(\widehat{ANT}) = 6x + 4°$

$\Rightarrow y = ?$

A) 10 B) 11 C) 12 D) 13 E) 14

16.



$d_1 // d_2$

$m(\widehat{BDE}) = 94°$

$m(\widehat{DEF}) = 82°$

$m(\widehat{ABC}) = m(\widehat{CBD})$

$m(\widehat{KFC}) = m(\widehat{CFE})$

$\Rightarrow m(\widehat{BCF}) = \alpha = ?$

A) 80 B) 82 C) 84 D) 86 E) 90

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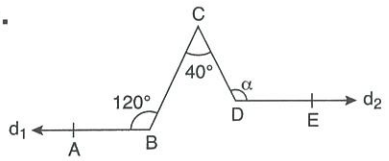
1.



$d_1 // d_2$

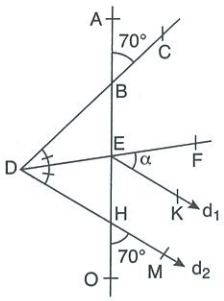
$m(\widehat{ABC}) = 120°$

$m(\widehat{BCD}) = 40°$

$\Rightarrow m(\widehat{CDE}) = \alpha = ?$

A) 70 B) 80 C) 90 D) 100 E) 110

2.



$d_1 // d_2$

$m(\widehat{ABC}) = 70°$

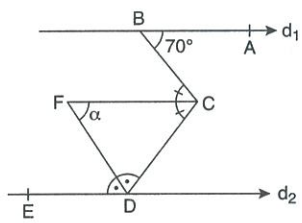
$m(\widehat{MHO}) = 70°$

$m(\widehat{CDF}) = (\widehat{FDB})$

$\Rightarrow m(\widehat{FEK}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 50 E) 70

3.



$d_1 // d_2$

$m(\widehat{ABC}) = 70°$

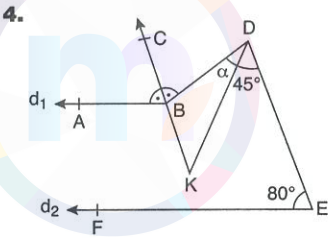
$m(\widehat{CDF}) = m(\widehat{FDE})$

$m(\widehat{BCF}) = m(\widehat{FCD})$

$\Rightarrow m(\widehat{CFD}) = \alpha = ?$

A) 45 B) 50 C) 55 D) 60 E) 65

4.



$d_1 // d_2$

[DE]//[KC

$m(\widehat{ABC}) = m(\widehat{CBD})$

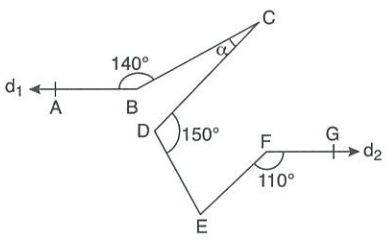
$m(\widehat{KDE}) = 45°$

$m(\widehat{DEF}) = 80°$

$\Rightarrow m(\widehat{BDK}) = \alpha = ?$

A) 35 B) 40 C) 45 D) 50 E) 55

5.



$d_1 // d_2$

[DC] // [EF]

$m(\widehat{ABC}) = 140°$

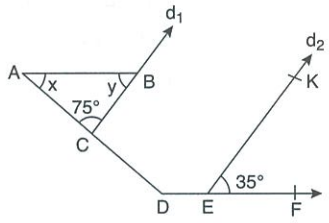
$m(\widehat{EFG}) = 110°$

$m(\widehat{CDE}) = 150°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

6.



$d_1 // d_2$

[AB]//[DF

$m(\widehat{ACB}) = 75°$

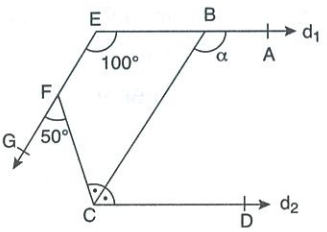
$m(\widehat{KEF}) = 35°$

$m(\widehat{DAB}) = x$

$\Rightarrow m(\widehat{ABC}) = y = ?$

A) 25 B) 30 C) 35 D) 40 E) 45

7.



$d_1 // d_2$

$m(\widehat{AEG}) = 100°$

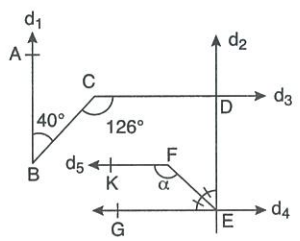
$m(\widehat{GFC}) = 50°$

$m(\widehat{FCB}) = m(\widehat{BCD})$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 50 B) 70 C) 100 D) 115 E) 120

8.



$d_1 // d_2$

$d_3 // d_4 // d_5$

$m(\widehat{ABC}) = 40°$

$m(\widehat{BCD}) = 126°$

$m(\widehat{DEF}) = m(\widehat{FEG})$

$\Rightarrow m(\widehat{KFE}) = \alpha = ?$

A) 94 B) 104 C) 117 D) 127 E) 137

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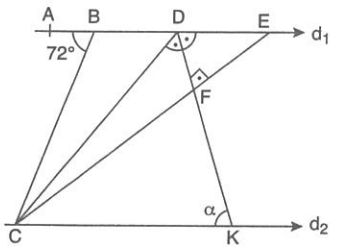
9.



$d_1 // d_2$

$m(\widehat{CDK}) = m(\widehat{KDE})$

$[DF] \perp [CE]$

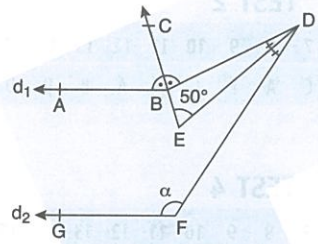
$m(\widehat{ABC}) = 72°$

$m(\widehat{BCD}) = 2m(\widehat{DCE})$

$\Rightarrow m(\widehat{DKC}) = \alpha = ?$

A) 68 B) 70 C) 72 D) 74 E) 76

10.



$d_1 // d_2$

$m(\widehat{ABC}) = m(\widehat{CBD})$

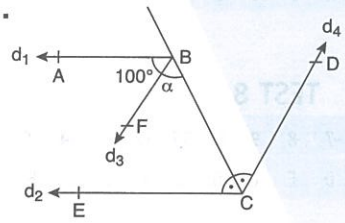
$m(\widehat{BDE}) = m(\widehat{EDF})$

$m(\widehat{CED}) = 50°$

$\Rightarrow m(\widehat{DFG}) = \alpha = ?$

A) 70 B) 80 C) 90 D) 100 E) 110

11.



$d_1 // d_2$

$d_3 // d_4$

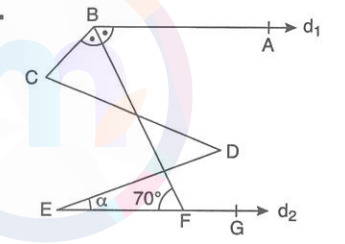
$m(\widehat{ABF}) = 100°$

$m(\widehat{ECB}) = m(\widehat{BCD})$

$\Rightarrow m(\widehat{FBC}) = \alpha = ?$

A) 40 B) 45 C) 50 D) 55 E) 60

12.



$d_1 // d_2$

$m(\widehat{ABF}) = m(\widehat{CBF})$

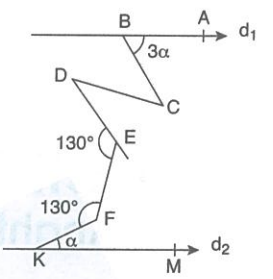
$m(\widehat{BCD}) = m(\widehat{CDE})$

$m(\widehat{BFE}) = 70°$

$\Rightarrow m(\widehat{DEG}) = \alpha = ?$

A) 15 B) 25 C) 30 D) 35 E) 40

13.



$d_1 // d_2$

$[BC] // [DE]$

$m(\widehat{ABC}) = 3\alpha$

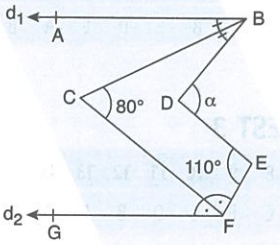
$m(\widehat{DEF}) = 130°$

$m(\widehat{EFK}) = 130°$

$\Rightarrow m(\widehat{FKM}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

14.



$d_1 // d_2$

$m(\widehat{BCF}) = 80°$

$m(\widehat{DEF}) = 110°$

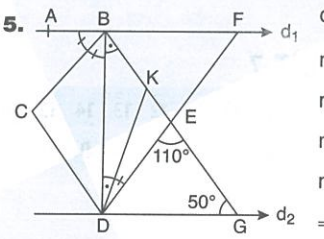
$m(\widehat{ABC}) = m(\widehat{CBD})$

$m(\widehat{EFC}) = m(\widehat{CFG})$

$\Rightarrow m(\widehat{BDE}) = \alpha = ?$

A) 60 B) 70 C) 80 D) 90 E) 100

15.



$d_1 // d_2$

$m(\widehat{DEG}) = 110°$

$m(\widehat{EGD}) = 50°$

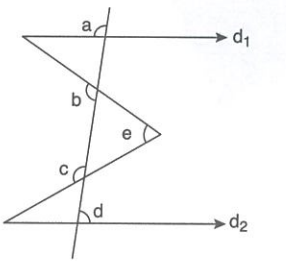
$m(\widehat{DBG}) = m(\widehat{BDK})$

$m(\widehat{ABC}) = m(\widehat{CBD}) = m(\widehat{KDF})$

$\Rightarrow m(\widehat{CBG}) = ?$

A) 90 B) 80 C) 70 D) 60 E) 50

16.



$d_1 // d_2$

$a + b + c + d = 460$

$\Rightarrow e = ?$

A) 100 B) 90 C) 80 D) 70 E) 60

PUZA YAYINLARI

AÇILAR ANGLES
Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	D	B	C	D	E	A	B	E	B	E	D	E	A	B	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	D	D	D	C	B	C	A	E	C	A	A	B	D	D	D

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	D	C	B	D	A	A	C	B	C	D	B	B	A	C	E

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	A	D	C	E	C	B	B	C	B	C	B	A	B	A	A

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	C	D	B	E	B	A	C	A	C	C	D	A	B	C	B

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	D	E	D	E	D	A	D	C	D	E	C	A	E	D	E

TEST 7

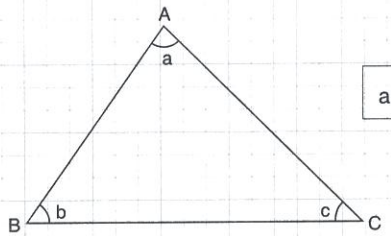
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	B	D	E	A	C	B	B	C	B	C	C	A	D	D	C

TEST 8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	C	A	B	C	D	E	C	D	A	E	B	D	B	A

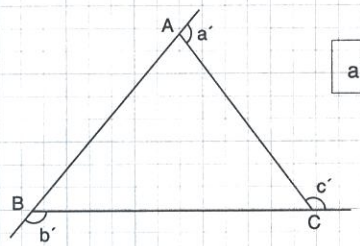
ÜÇGENDE AÇILAR
ANGLES OF TRIANGLE

ÖZELLİK|Property 1



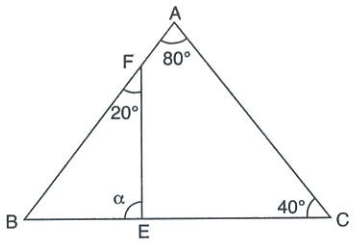
$a + b + c = 180°$

ÖZELLİK|Property 2



$a' + b' + c' = 360°$

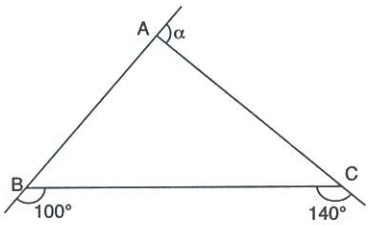
1.



$\Rightarrow \alpha = ?$

100

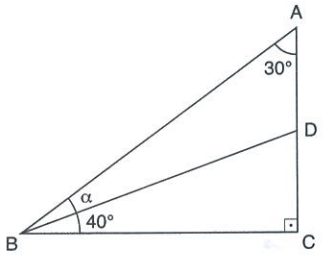
1.



$\Rightarrow \alpha = ?$

120

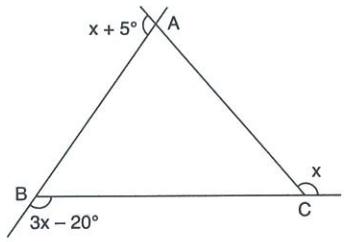
2.



$\Rightarrow \alpha = ?$

20

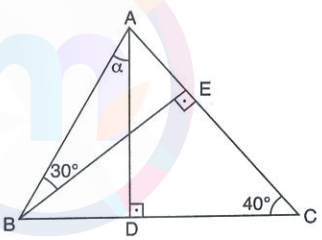
2.



$\Rightarrow x = ?$

75

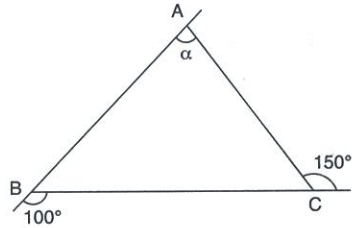
3.



$\Rightarrow \alpha = ?$

10

3.

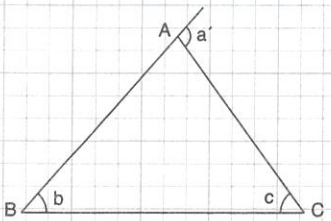


$\Rightarrow \alpha = ?$

70

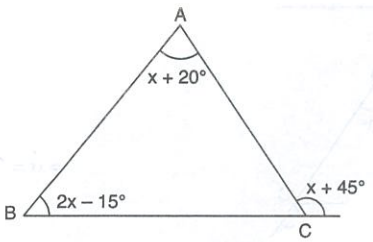
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 3



$a' = b + c$

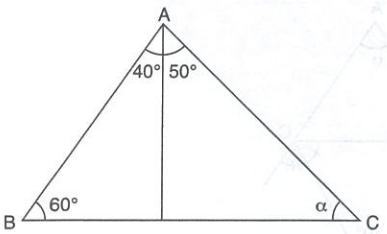
1.



$\Rightarrow x = ?$

20

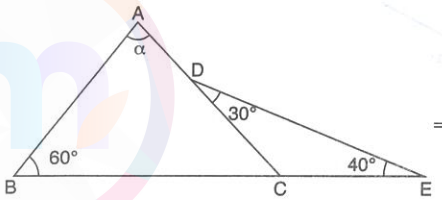
2.



$\Rightarrow \alpha = ?$

30

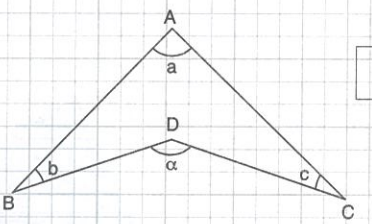
3.



$\Rightarrow \alpha = ?$

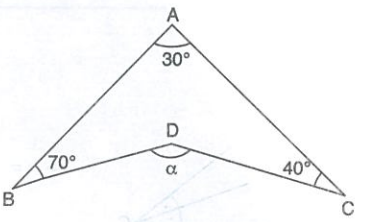
50

ÖZELLİK|Property 4



$\alpha = a + b + c$

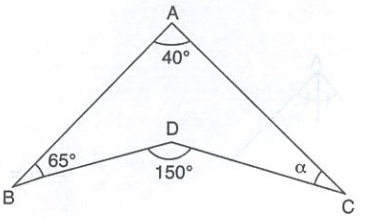
1.



$\Rightarrow \alpha = ?$

140

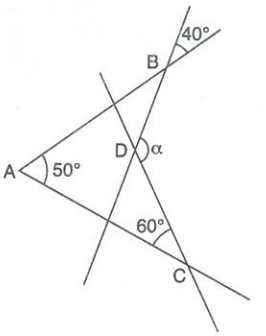
2.



$\Rightarrow \alpha = ?$

45

3.

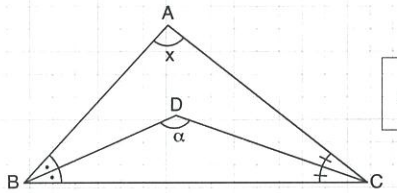


$\Rightarrow \alpha = ?$

150

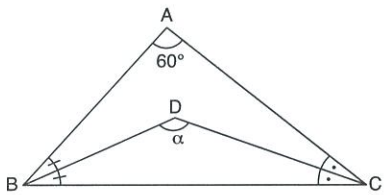
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 5



$$\alpha = 90° + \frac{x}{2}$$

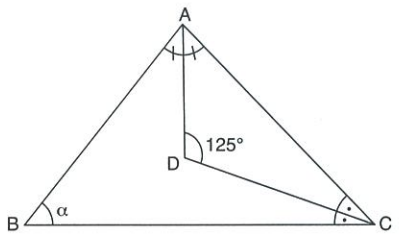
1.



$\Rightarrow \alpha = ?$

120

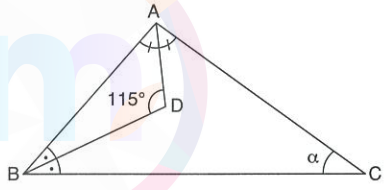
2.



$\Rightarrow \alpha = ?$

70

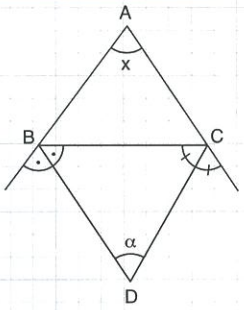
3.



$\Rightarrow \alpha = ?$

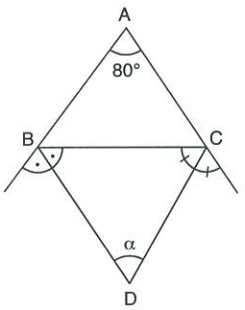
50

ÖZELLİK|Property 6



$$\alpha = 90° - \frac{x}{2}$$

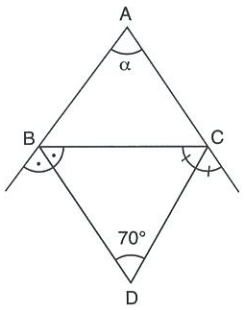
1.



$\Rightarrow \alpha = ?$

50

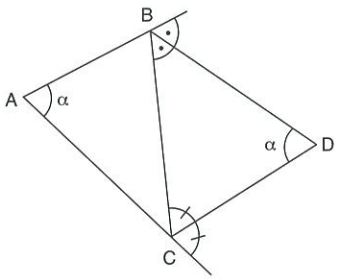
2.



$\Rightarrow \alpha = ?$

40

3.



$\Rightarrow \alpha = ?$

60

PUZA YAYINLARI
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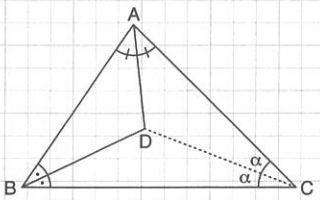
PUZA YAYINLARI

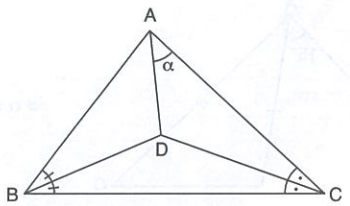
ÖZELLİK|Property 7



Üçgenin iç açıortayları, üçgenin iç bölgesinde bir noktada kesişir.

The interior angle bisectors are intersected at a point inside of the triangle.

1.

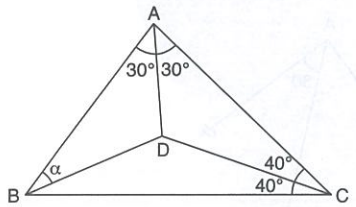


$m(\widehat{BAC}) = 70°$

$\Rightarrow \alpha = ?$

35

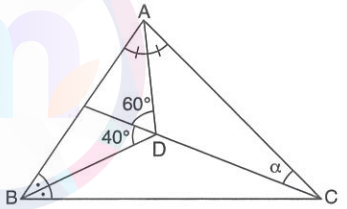
2.



$\Rightarrow \alpha = ?$

20

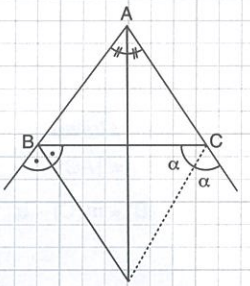
3.



$\Rightarrow \alpha = ?$

10

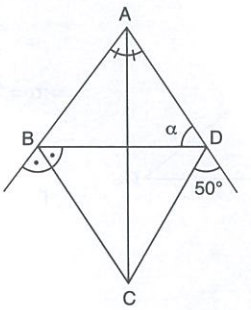
ÖZELLİK|Property 8



Bir üçgende iki açının dış açıortayları ile diğer açının iç açıortayı üçgenin dışında bir noktada kesişir.

The exterior angle bisectors of two angle and interior angle bisector of the other angle intersected at a point outside of the triangle.

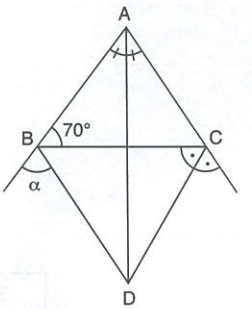
1.



$\Rightarrow \alpha = ?$

80

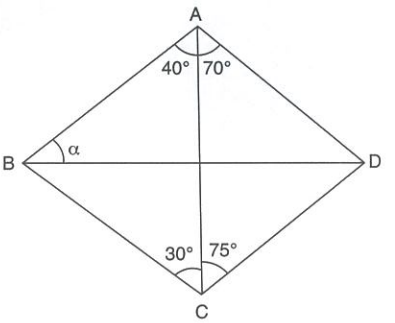
2.



$\Rightarrow \alpha = ?$

55

3.

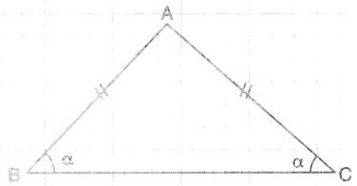


$\Rightarrow \alpha = ?$

55

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK | Property 9



İkizkenar üçgen

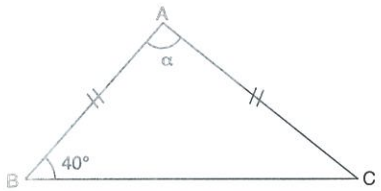
Isosceles triangle

$|AB| = |AC|$

$m(\widehat{B}) = m(\widehat{C}) = \alpha$

PUZA YAYINLARI

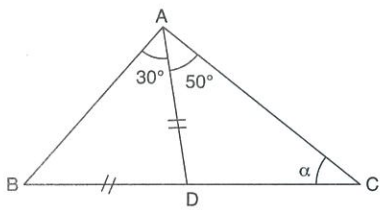
1.



$\Rightarrow \alpha = ?$

100

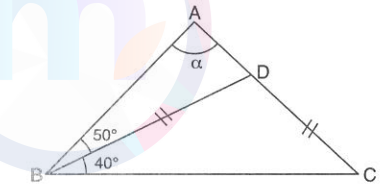
2.



$\Rightarrow \alpha = ?$

70

3.

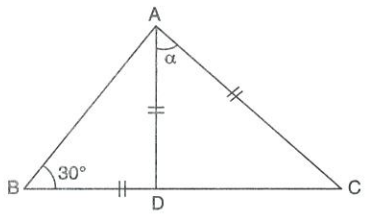


$\Rightarrow \alpha = ?$

50

PUZA YAYINLARI

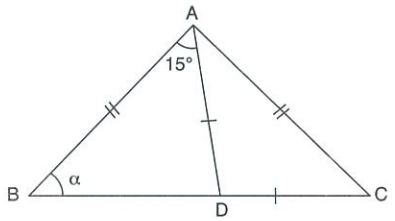
4.



$\Rightarrow \alpha = ?$

60

5.



$\Rightarrow \alpha = ?$

55

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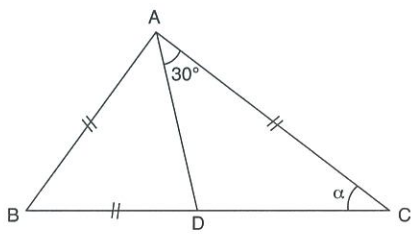
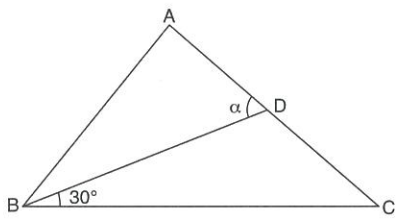
6.



$\Rightarrow \alpha = ?$

40

7.



$|AB| = |AC|$

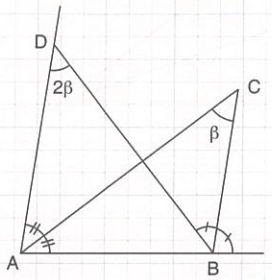
$|AD| = |BD|$

$\Rightarrow \alpha = ?$

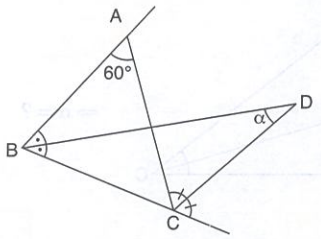
100

PUZA YAYINLARI

ÖZELLİK|Property 10



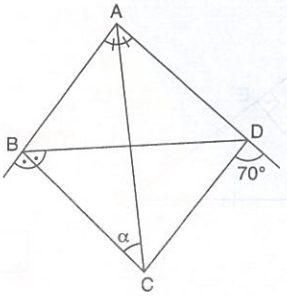
1.



$\Rightarrow \alpha = ?$

30

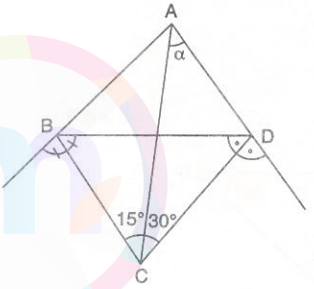
2.



$\Rightarrow \alpha = ?$

20

3.



$\Rightarrow \alpha = ?$

45

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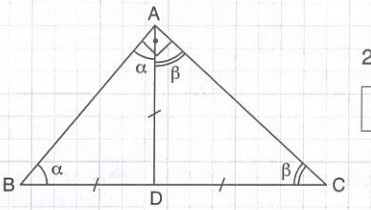
PUZA YAYINLARI

PUZA YAYINLARI

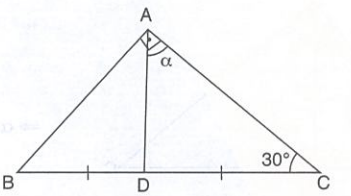
ÖZELLİK|Property 11



$2\alpha + 2\beta = 180°$

$\alpha + \beta = 90°$

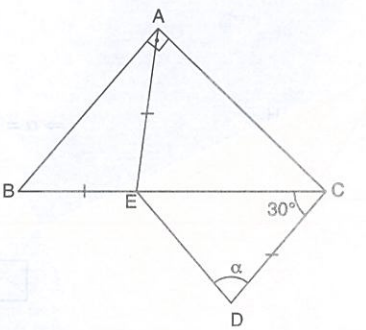
1.



$\Rightarrow \alpha = ?$

30

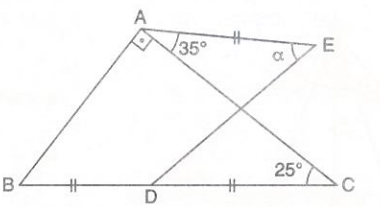
2.



$\Rightarrow \alpha = ?$

75

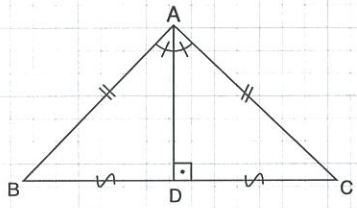
3.



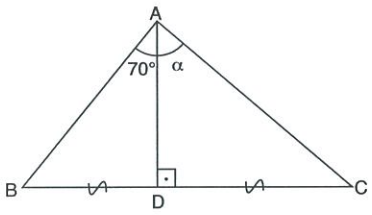
$\Rightarrow \alpha = ?$

60

ÖZELLİK | Property 12



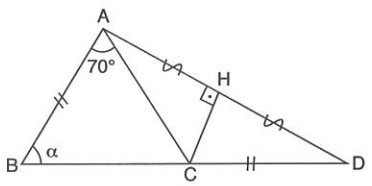
1.



$\Rightarrow \alpha = ?$

70

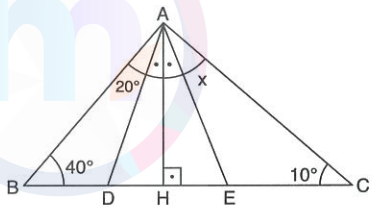
2.



$\Rightarrow \alpha = ?$

55

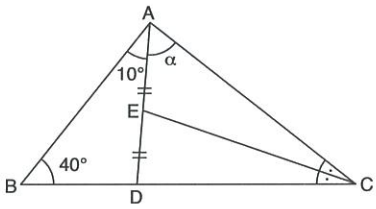
3.



$\Rightarrow x = ?$

50

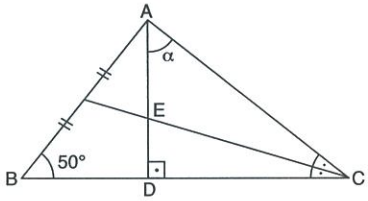
4.



$\Rightarrow \alpha = ?$

50

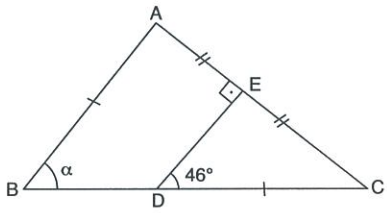
5.



$\Rightarrow \alpha = ?$

10

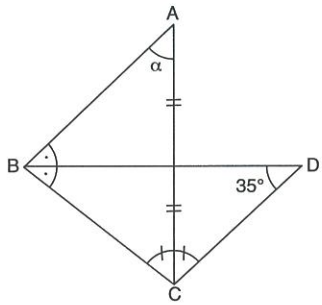
6.



$\Rightarrow \alpha = ?$

88

7.



$\Rightarrow \alpha = ?$

55

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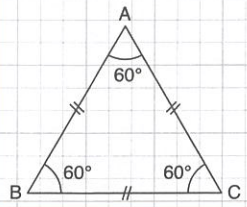
ÖZELLİK|Property 13

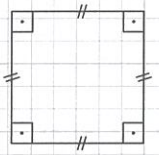
Eşkenar üçgen

Equilateral triangle

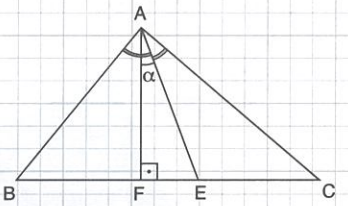


Kare

Square



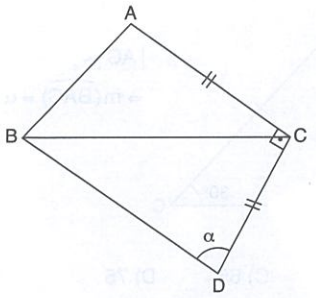
ÖZELLİK|Property 14



$m(\widehat{BAE}) = m(\widehat{EAC})$

$\Rightarrow \alpha = \dfrac{m(\widehat{B}) - m(\widehat{C})}{2}$

1.



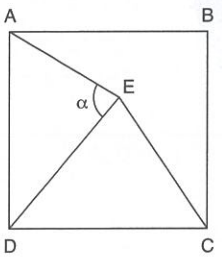
ABC eşkenar üçgen

ABC equilateral triangle

$\Rightarrow \alpha = ?$

75

2.



ABCD kare

ABCD Square

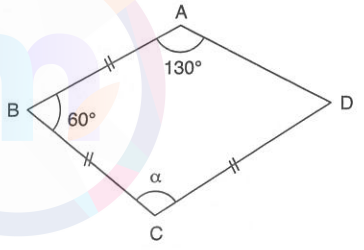
EDC eşkenar üçgen

EDC equilateral triangle

$\Rightarrow \alpha = ?$

75

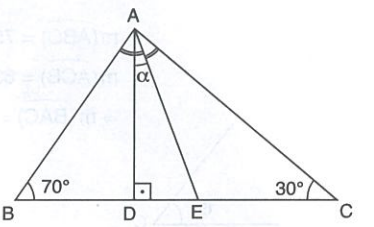
3.



$\Rightarrow \alpha = ?$

100

1.

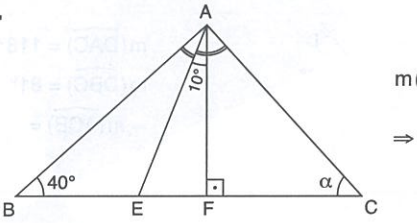


$m(\widehat{BAE}) = m(\widehat{EAC})$

$\Rightarrow \alpha = ?$

20

2.

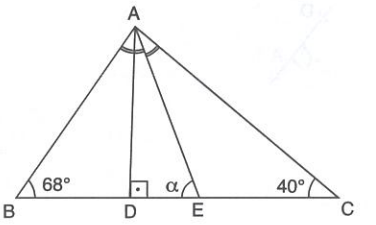


$m(\widehat{BAE}) = m(\widehat{EAC})$

$\Rightarrow \alpha = ?$

60

3.



$m(\widehat{BAE}) = m(\widehat{EAC})$

$\Rightarrow \alpha = ?$

76

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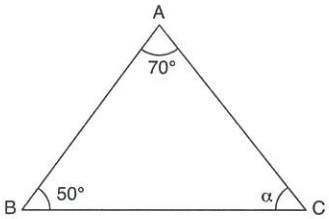
PUZA YAYINLARI
PUZA YAYINLARI

1.



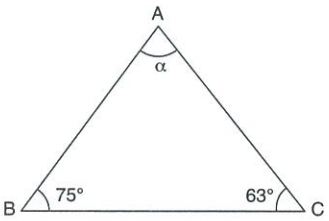
$m(\widehat{BAC}) = 70°$

$m(\widehat{ABC}) = 50°$

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 40 B) 50 C) 60 D) 70 E) 80

2.



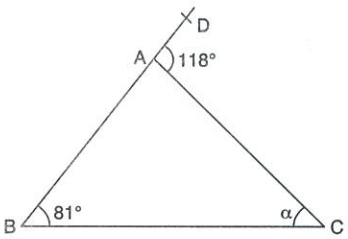
$m(\widehat{ABC}) = 75°$

$m(\widehat{ACB}) = 63°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 32 B) 42 C) 48 D) 52 E) 58

3.



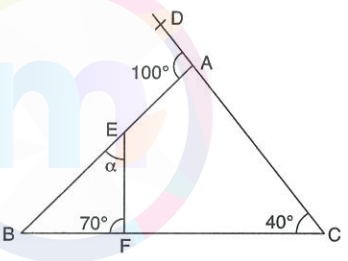
$m(\widehat{DAC}) = 118°$

$m(\widehat{DBC}) = 81°$

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 37 B) 43 C) 47 D) 53 E) 57

4.



$m(\widehat{DAB}) = 100°$

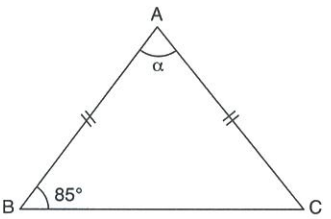
$m(\widehat{DCB}) = 40°$

$m(\widehat{EFB}) = 70°$

$\Rightarrow m(\widehat{BEF}) = \alpha = ?$

A) 35 B) 40 C) 45 D) 50 E) 60

5.



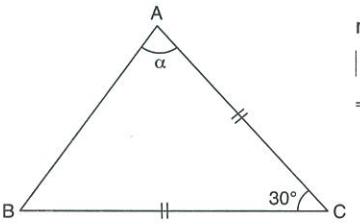
$|AB| = |AC|$

$m(\widehat{ABC}) = 85°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 75 E) 85

6.



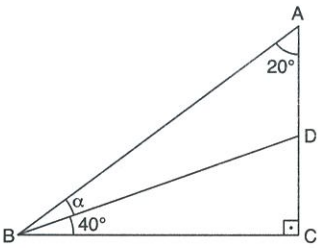
$m(\widehat{ACB}) = 30°$

$|AC| = |BC|$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 30 B) 45 C) 65 D) 75 E) 85

7.



$m(\widehat{BAC}) = 20°$

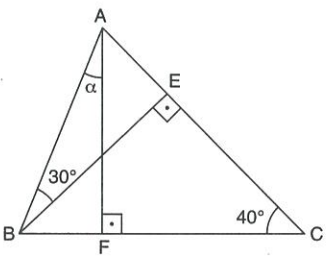
$m(\widehat{DBC}) = 40°$

$[AC] \perp [BC]$

$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 45 E) 55

8.



$m(\widehat{ABE}) = 30°$

$m(\widehat{ACB}) = 40°$

$[BE] \perp [AC]$

$[AF] \perp [BC]$

$\Rightarrow m(\widehat{BAF}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

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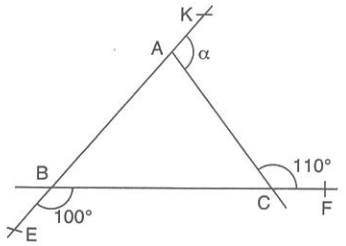
9.



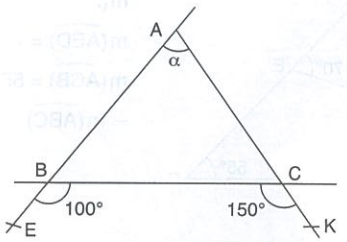
$m(\widehat{ACF}) = 110°$

$m(\widehat{EBF}) = 100°$

$\Rightarrow m(\widehat{KAC}) = \alpha = ?$

A) 100 B) 110 C) 120 D) 130 E) 150

10.



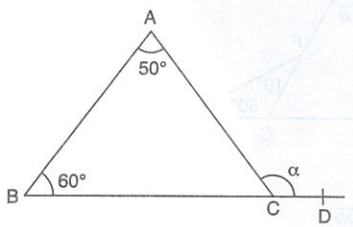
$m(\widehat{EBC}) = 100°$

$m(\widehat{BCK}) = 150°$

$\Rightarrow m(\widehat{EAK}) = \alpha = ?$

A) 50 B) 60 C) 70 D) 80 E) 90

11.



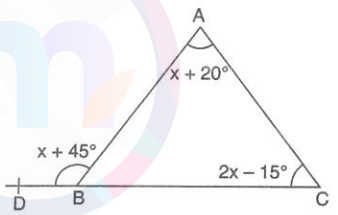
$m(\widehat{ABD}) = 60°$

$m(\widehat{BAC}) = 50°$

$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 50 B) 60 C) 90 D) 100 E) 110

12.



$m(\widehat{BAC}) = x + 20°$

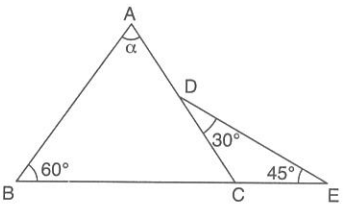
$m(\widehat{ACD}) = 2x - 15°$

$m(\widehat{ABD}) = x + 45°$

$\Rightarrow m(\widehat{ABC}) = ?$

A) 20 B) 45 C) 65 D) 115 E) 125

13.



$m(\widehat{ABE}) = 60°$

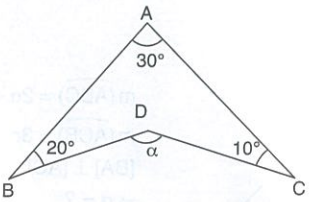
$m(\widehat{CDE}) = 30°$

$m(\widehat{DEB}) = 45°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 35 B) 40 C) 45 D) 50 E) 55

14.



$m(\widehat{BAC}) = 30°$

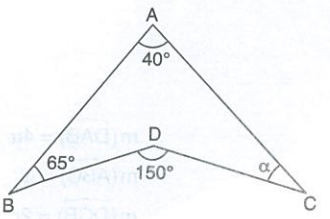
$m(\widehat{ABD}) = 20°$

$m(\widehat{ACD}) = 10°$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 50 E) 60

15.



$m(\widehat{BAC}) = 40°$

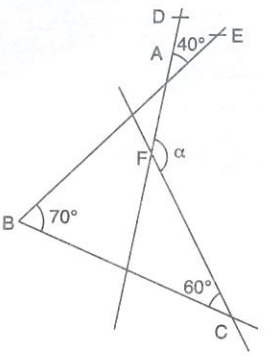
$m(\widehat{ABD}) = 65°$

$m(\widehat{BDC}) = 150°$

$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 40 B) 45 C) 50 D) 55 E) 65

16.



$m(\widehat{DAE}) = 40°$

$m(\widehat{ABC}) = 70°$

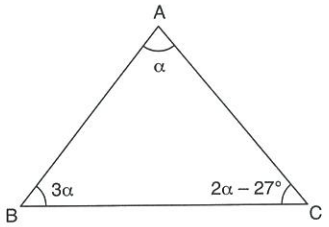
$m(\widehat{BCF}) = 60°$

$\Rightarrow m(\widehat{DFC}) = \alpha = ?$

A) 70 B) 130 C) 140 D) 170 E) 180

PUZA YAYINLARI

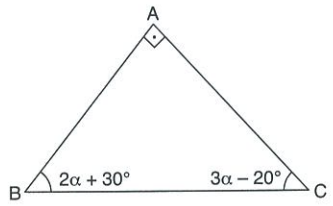
1.



$m(\widehat{BAC}) = \alpha$
$m(\widehat{ABC}) = 3\alpha$
$m(\widehat{ACB}) = 2\alpha - 27°$
$\Rightarrow \alpha = ?$

A) 30 B) 32,5 C) 34,5 D) 36,5 E) 40

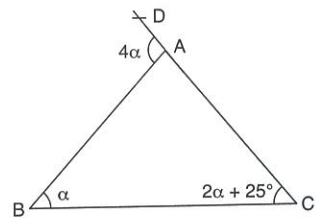
2.



$m(\widehat{ABC}) = 2\alpha + 30°$
$m(\widehat{ACB}) = 3\alpha - 20°$
$[BA] \perp [AC]$
$\Rightarrow \alpha = ?$

A) 15 B) 16 C) 20 D) 22 E) 25

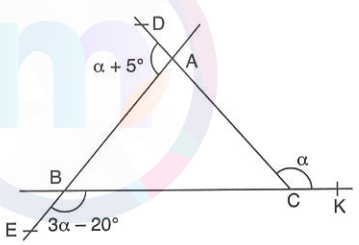
3.



$m(\widehat{DAB}) = 4\alpha$
$m(\widehat{ABC}) = \alpha$
$m(\widehat{DCB}) = 2\alpha + 25°$
$\Rightarrow \alpha = ?$

A) 5 B) $\frac{25}{3}$ C) $\frac{25}{2}$ D) 25 E) 50

4.



$m(\widehat{DAE}) = \alpha + 5°$
$m(\widehat{EBK}) = 3\alpha - 20°$
$\Rightarrow m(\widehat{DCK}) = \alpha = ?$

A) 69 B) 72 C) 75 D) 78 E) 81

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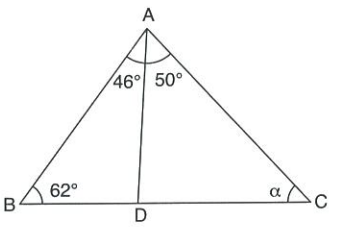
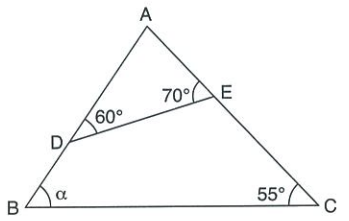
5.



$m(\widehat{ABC}) = 62°$
$m(\widehat{BAD}) = 46°$
$m(\widehat{DAC}) = 50°$
$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 12 B) 22 C) 28 D) 32 E) 38

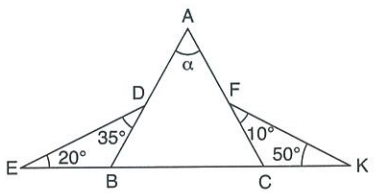
6.



$m(\widehat{ADE}) = 60°$
$m(\widehat{AED}) = 70°$
$m(\widehat{ACB}) = 55°$
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 55 B) 60 C) 65 D) 70 E) 75

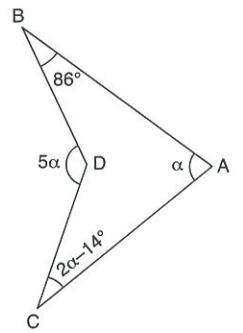
7.



$m(\widehat{EDB}) = 35°$
$m(\widehat{DEK}) = 20°$
$m(\widehat{CFK}) = 10°$
$m(\widehat{FKE}) = 50°$
$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 45 B) 55 C) 65 D) 75 E) 85

8.



$m(\widehat{ABD}) = 86°$
$m(\widehat{ACD}) = 2\alpha - 14°$
$m(\widehat{BDC}) = 5\alpha$
$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 26 B) 30 C) 32 D) 36 E) 42

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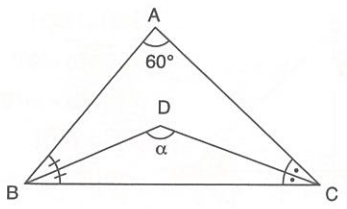
9.



$m(\widehat{BAC}) = 60°$

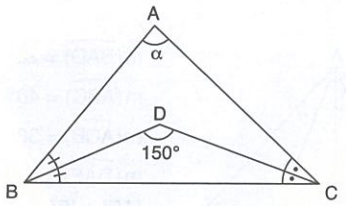
$m(\widehat{ABD}) = m(\widehat{DBC})$

$m(\widehat{ACD}) = m(\widehat{DCB})$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 90 B) 100 C) 120 D) 130 E) 150

10.



$m(\widehat{BDC}) = 150°$

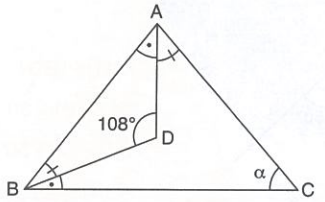
$m(\widehat{ABD}) = m(\widehat{DBC})$

$m(\widehat{ACD}) = m(\widehat{DCB})$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 60 B) 90 C) 100 D) 120 E) 150

11.



$m(\widehat{ADB}) = 108°$

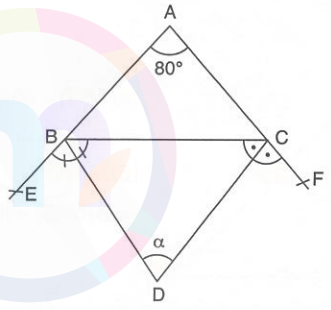
$m(\widehat{CAD}) = m(\widehat{ABD})$

$m(\widehat{DAB}) = m(\widehat{DBC})$

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 18 B) 36 C) 72 D) 100 E) 108

12.



$m(\widehat{EAF}) = 80°$

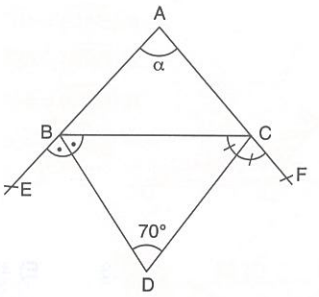
$m(\widehat{EBD}) = m(\widehat{DBC})$

$m(\widehat{BCD}) = m(\widehat{DCF})$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 130 B) 80 C) 70 D) 50 E) 40

13.



$m(\widehat{BDC}) = 70°$

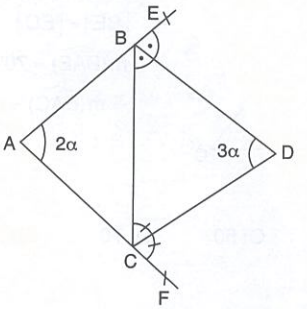
$m(\widehat{EBD}) = m(\widehat{DBC})$

$m(\widehat{BCD}) = m(\widehat{DCF})$

$\Rightarrow m(\widehat{EAF}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 70

14.



$3m(\widehat{EAF}) = 2m(\widehat{BDC})$

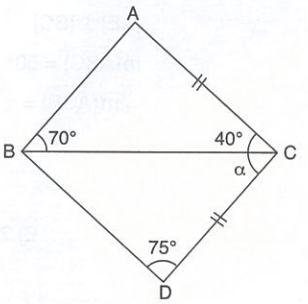
$m(\widehat{CBD}) = m(\widehat{DBE})$

$m(\widehat{BCD}) = m(\widehat{DCF})$

$\Rightarrow \alpha = ?$

A) $\frac{45}{4}$ B) $\frac{45}{2}$ C) 45 D) 55 E) 60

15.



$|AC| = |DC|$

$m(\widehat{ABC}) = 70°$

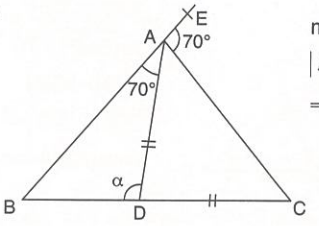
$m(\widehat{ACB}) = 40°$

$m(\widehat{BDC}) = 75°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 75

16.



$m(\widehat{BAD}) = m(\widehat{EAC}) = 70°$

$|AD| = |DC|$

$\Rightarrow m(\widehat{ADB}) = \alpha = ?$

A) 40 B) 70 C) 80 D) 90 E) 100

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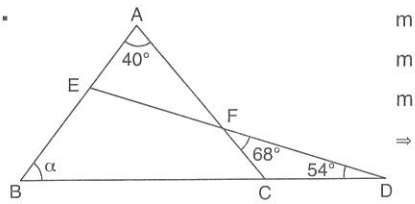
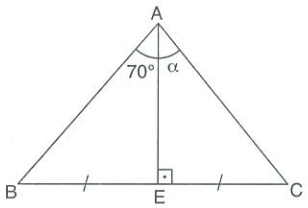
1.



$m(\widehat{BAC}) = 40°$
$m(\widehat{CFD}) = 68°$
$m(\widehat{EDB}) = 54°$
$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 18 B) 28 C) 34 D) 38 E) 40

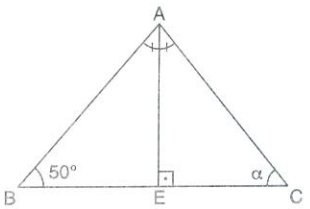
2.



$[AE] \perp [BC]$
$|BE| = |EC|$
$m(\widehat{BAE}) = 70°$
$\Rightarrow m(\widehat{EAC}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 70 E) 80

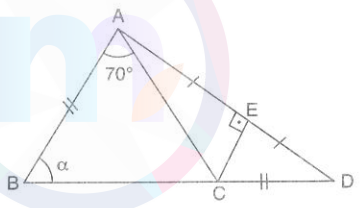
3.



$m(\widehat{BAE}) = m(\widehat{EAC})$
$[AE] \perp [BC]$
$m(\widehat{ABC}) = 50°$
$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 60 E) 70

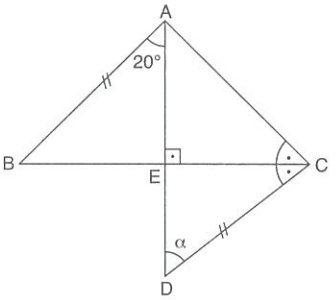
4.



$[CE] \perp [AD]$
$m(\widehat{BAC}) = 70°$
$|AB| = |CD|$
$|AE| = |ED|$
$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 45 B) 55 C) 65 D) 70 E) 80

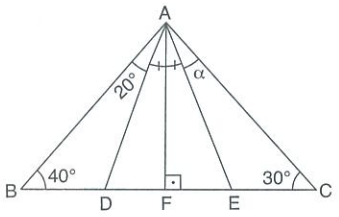
5.



$|AB| = |CD|$
$m(\widehat{BAD}) = 20°$
$m(\widehat{ACB}) = m(\widehat{BCD})$
$[AE] \perp [BC]$
$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 70

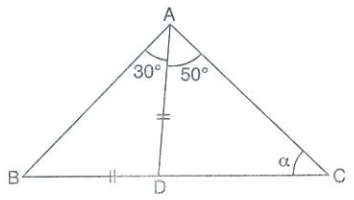
6.



$m(\widehat{BAD}) = 20°$
$m(\widehat{ABC}) = 40°$
$m(\widehat{ACB}) = 30°$
$m(\widehat{DAF}) = m(\widehat{FAE})$
$[AF] \perp [BC]$
$\Rightarrow m(\widehat{EAC}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

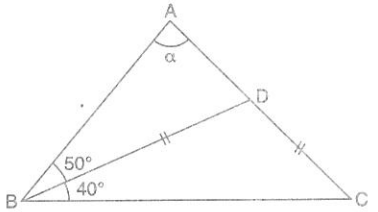
7.



$|AD| = |BD|$
$m(\widehat{BAD}) = 30°$
$m(\widehat{DAC}) = 50°$
$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 30 B) 50 C) 60 D) 70 E) 80

8.



$m(\widehat{ABD}) = 50°$
$m(\widehat{DBC}) = 40°$
$|BD| = |DC|$
$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 40 B) 50 C) 60 D) 80 E) 90

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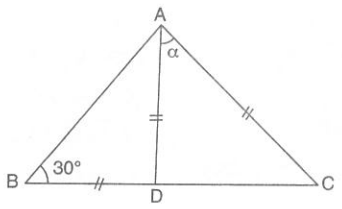
9.



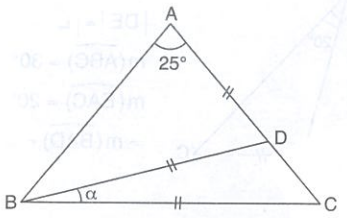
$m(\widehat{ABC}) = 30°$

$|BD| = |AD| = |AC|$

$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 75 E) 90

10.



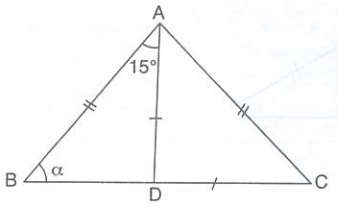
$|AD| = |BD| = |BC|$

$m(\widehat{BAC}) = 25°$

$\Rightarrow m(\widehat{DBC}) = \alpha = ?$

A) 25 B) 50 C) 60 D) 70 E) 80

11.



$m(\widehat{BAD}) = 15°$

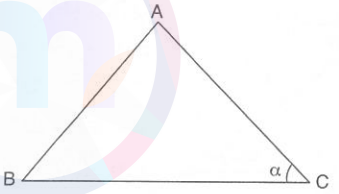
$|AB| = |AC|$

$|AD| = |DC|$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 45 B) 55 C) 60 D) 65 E) 75

12.



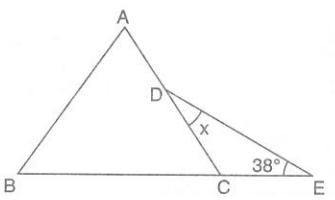
ABC eşkenar üçgen

ABC equilateral triangle

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 90 E) 120

13.



ABC eşkenar üçgen

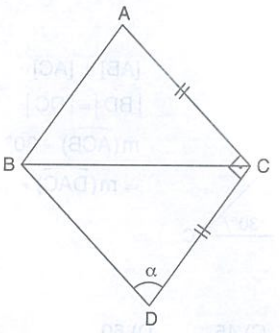
ABC equilateral triangle

$m(\widehat{BED}) = 38°$

$\Rightarrow m(\widehat{CDE}) = x = ?$

A) 58 B) 52 C) 28 D) 22 E) 18

14.



ABC eşkenar üçgen

ABC equilateral triangle

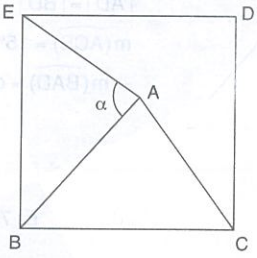
$|AC| = |CD|$

$[AC] \perp [DC]$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 70 E) 75

15.



ABC eşkenar üçgen

ABC equilateral triangle

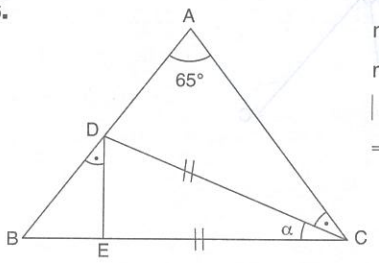
BCDE kare

BCDE square

$\Rightarrow m(\widehat{EAB}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 70 E) 75

16.



$m(\widehat{BAC}) = 65°$

$m(\widehat{ACD}) = m(\widehat{BDE})$

$|DC| = |EC|$

$\Rightarrow m(\widehat{DCB}) = \alpha = ?$

A) 40 B) 50 C) 60 D) 65 E) 75

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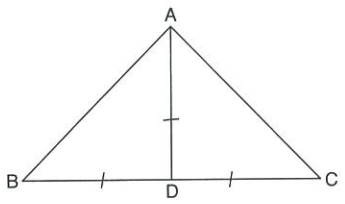
1.

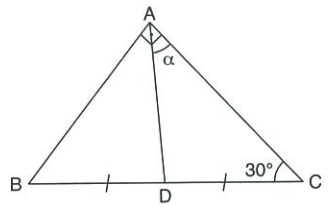


$|AD| = |BD| = |DC|$

$\Rightarrow m(\widehat{BAC}) = ?$

A) 30 B) 45 C) 60 D) 90 E) 120

2.



$[AB] \perp [AC]$

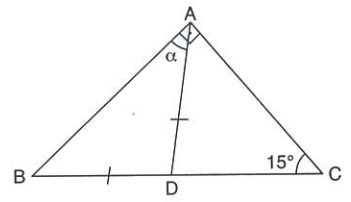
$|BD| = |DC|$

$m(\widehat{ACB}) = 30°$

$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 15 B) 30 C) 45 D) 60 E) 75

3.



$[AB] \perp [AC]$

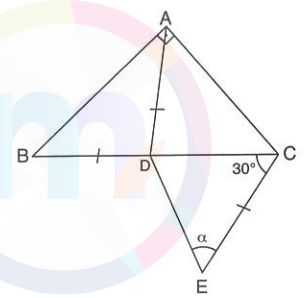
$|AD| = |BD|$

$m(\widehat{ACB}) = 15°$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 15 B) 30 C) 45 D) 65 E) 75

4.



$[AB] \perp [AC]$

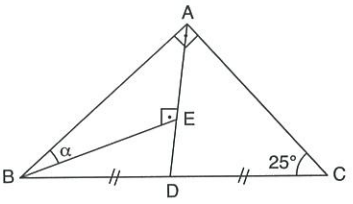
$|AD| = |BD| = |EC|$

$m(\widehat{BCE}) = 30°$

$\Rightarrow m(\widehat{DEC}) = \alpha = ?$

A) 15 B) 30 C) 60 D) 75 E) 90

5.



$[AB] \perp [AC]$

$[AD] \perp [BE]$

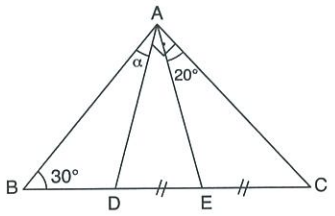
$|BD| = |DC|$

$m(\widehat{ACB}) = 25°$

$\Rightarrow m(\widehat{ABE}) = \alpha = ?$

A) 25 B) 35 C) 45 D) 65 E) 75

6.



$[AD] \perp [AC]$

$|DE| = |EC|$

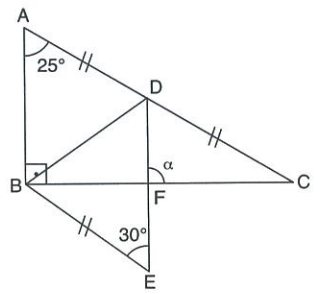
$m(\widehat{ABC}) = 30°$

$m(\widehat{EAC}) = 20°$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

7.



$[AB] \perp [BC]$

$|AD| = |DC| = |BE|$

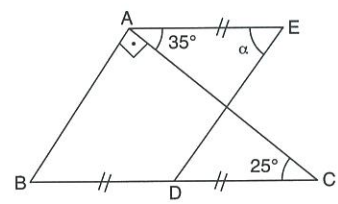
$m(\widehat{BAC}) = 25°$

$m(\widehat{BED}) = 30°$

$\Rightarrow m(\widehat{DFC}) = \alpha = ?$

A) 45 B) 55 C) 90 D) 95 E) 120

8.



$[AB] \perp [AC]$

$|AE| = |BD| = |DC|$

$m(\widehat{EAC}) = 35°$

$m(\widehat{ACB}) = 25°$

$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 25 B) 35 C) 50 D) 60 E) 70

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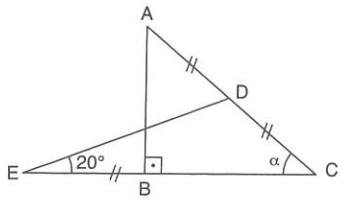
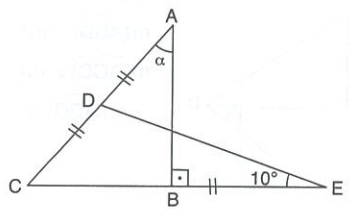
9.



[AB] ⊥ [EC]
|AD| = |DC| = |EB|
m(DEC) = 20°
⇒ m(ECA) = α = ?

A) 10 B) 20 C) 40 D) 50 E) 70

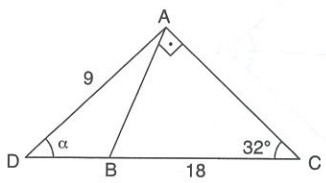
10.



[AB] ⊥ [EC]
|AD| = |DC| = |BE|
m(DEC) = 10°
⇒ m(BAC) = α = ?

A) 5 B) 10 C) 20 D) 70 E) 80

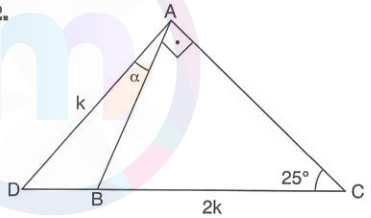
11.



[AB] ⊥ [AC]
2|AD| = |BC| = 18 br
m(ACD) = 32°
⇒ m(ADC) = α = ?

A) 16 B) 32 C) 58 D) 64 E) 74

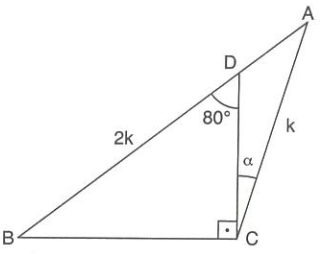
12.



[AB] ⊥ [AC]
2|AD| = |BC|
m(ACB) = 25°
⇒ m(DAB) = α = ?

A) 15 B) 20 C) 25 D) 40 E) 50

13.

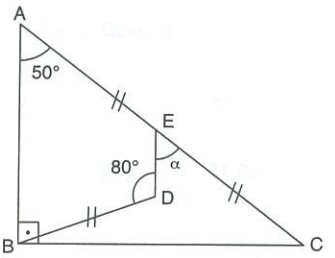


B, D, A doğrusal
B, D, A linear

[BC] ⊥ [DC]
2|AC| = |BD|
m(BDC) = 80°
⇒ m(ACD) = α = ?

A) 20 B) 30 C) 40 D) 50 E) 60

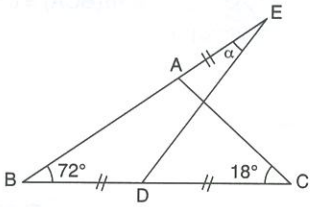
14.



[AB] ⊥ [BC]
|AE| = |EC| = |BD|
m(BAC) = 50°
m(BDE) = 80°
⇒ m(DEC) = α = ?

A) 20 B) 30 C) 35 D) 40 E) 50

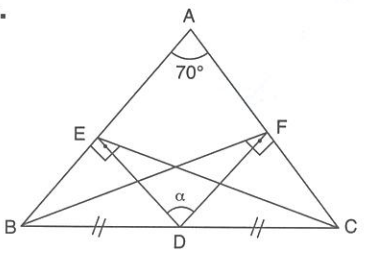
15.



m(EBC) = 72°
m(ACB) = 18°
|BD| = |DC| = |AE|
⇒ m(BED) = α = ?

A) 18 B) 32 C) 36 D) 44 E) 72

16.



[BA] ⊥ [EC]
[BF] ⊥ [AC]
|BD| = |DC|
m(BAC) = 70°
⇒ m(EDF) = α = ?

A) 20 B) 40 C) 50 D) 70 E) 100

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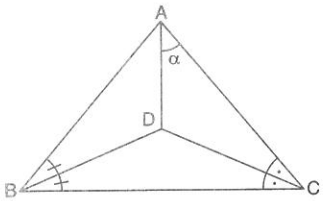
PUZA YAYINLARI
PUZA YAYINLARI

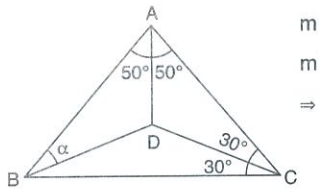
1.



$m(\widehat{BAC}) = 80°$
$m(\widehat{ABD}) = m(DBC)$
$m(\widehat{BCD}) = m(DCA)$
$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 20 B) 25 C) 30 D) 35 E) 40

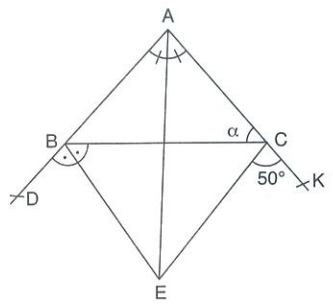
2.



$m(\widehat{BAD}) = m(\widehat{DAC}) = 50°$
$m(\widehat{ACD}) = m(\widehat{DCB}) = 30°$
$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 5 B) 10 C) 15 D) 20 E) 30

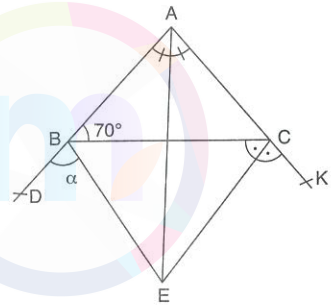
3.



$m(\widehat{DAE}) = m(\widehat{EAK})$
$m(\widehat{DBE}) = m(\widehat{EBC})$
$m(\widehat{ECK}) = 50°$
$\Rightarrow m(\widehat{BCA}) = \alpha = ?$

A) 40 B) 50 C) 70 D) 80 E) 90

4.



$m(\widehat{DAE}) = m(\widehat{EAK})$
$m(\widehat{BCE}) = m(\widehat{ECK})$
$m(\widehat{ABC}) = 70°$
$\Rightarrow m(\widehat{DBE}) = \alpha = ?$

A) 40 B) 50 C) 55 D) 60 E) 65

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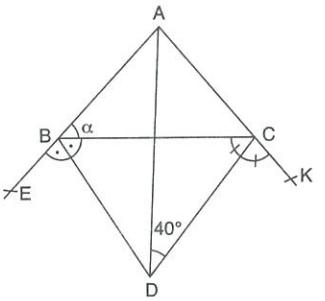
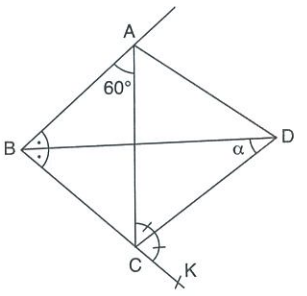
5.



$m(\widehat{EBD}) = m(\widehat{DBC})$
$m(\widehat{BCD}) = m(\widehat{DCK})$
$m(\widehat{ADC}) = 40°$
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 80 E) 100

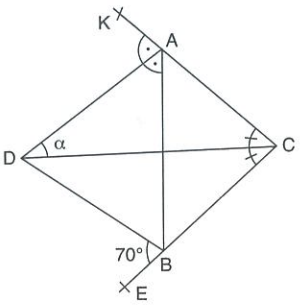
6.



$m(\widehat{BAC}) = 60°$
$m(\widehat{ABD}) = m(\widehat{DBK})$
$m(\widehat{ACD}) = m(\widehat{DCK})$
$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 120 B) 60 C) 45 D) 30 E) 15

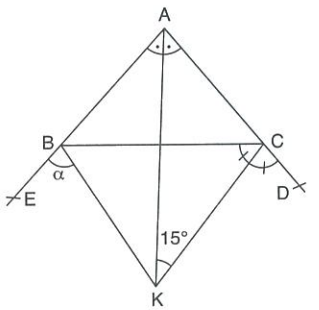
7.



$m(\widehat{KAD}) = m(\widehat{DAB})$
$m(\widehat{KCD}) = m(\widehat{DCE})$
$m(\widehat{DBE}) = 70°$
$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 10 B) 20 C) 40 D) 55 E) 110

8.



$m(\widehat{EAK}) = m(\widehat{KAD})$
$m(\widehat{BCK}) = m(\widehat{KCE})$
$m(\widehat{AKC}) = 15°$
$\Rightarrow m(\widehat{EBK}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 75 E) 150

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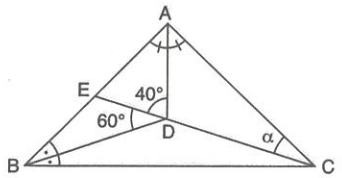
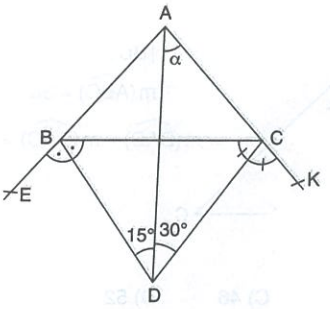
9.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ADE}) = 40°$
$m(\widehat{EDB}) = 60°$
$\Rightarrow m(\widehat{ACE}) = \alpha = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

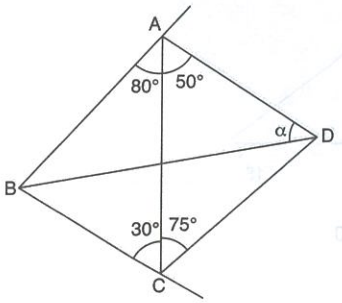
10.



$m(\widehat{EBD}) = m(\widehat{DBC})$
$m(\widehat{BCD}) = m(\widehat{DCK})$
$m(\widehat{BDA}) = 15°$
$m(\widehat{ADC}) = 30°$
$\Rightarrow m(\widehat{DAK}) = \alpha = ?$

A) 35 B) 40 C) 45 D) 50 E) 55

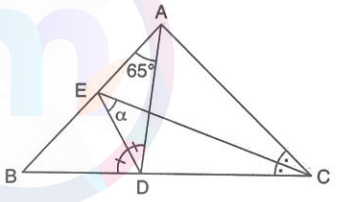
11.



$m(\widehat{BAC}) = 80°$
$m(\widehat{CAD}) = 50°$
$m(\widehat{BCA}) = 30°$
$m(\widehat{ACD}) = 75°$
$\Rightarrow m(\widehat{ADB}) = \alpha = ?$

A) 10 B) 15 C) 30 D) 40 E) 50

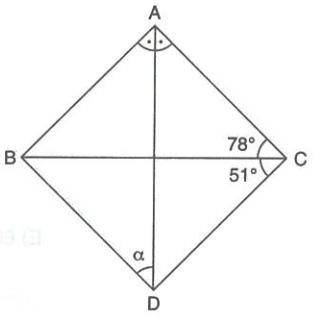
12.



$m(\widehat{ACE}) = m(\widehat{ECB})$
$m(\widehat{ADE}) = m(\widehat{EDB})$
$m(\widehat{BAD}) = 65°$
$\Rightarrow m(\widehat{DEC}) = \alpha = ?$

A) 130 B) 65 C) 50 D) 25 E) 20

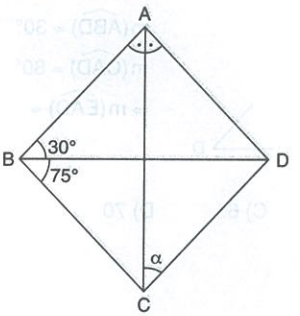
13.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{BCA}) = 78°$
$m(\widehat{BCD}) = 51°$
$\Rightarrow m(\widehat{BDA}) = \alpha = ?$

A) 28 B) 39 C) 56 D) 78 E) 90

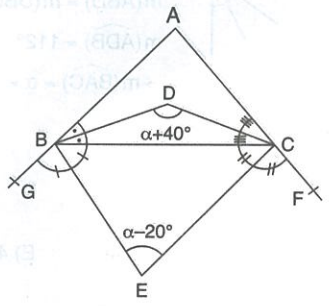
14.



$m(\widehat{BAC}) = m(\widehat{CAD})$
$m(\widehat{ABD}) = 30°$
$m(\widehat{DBC}) = 75°$
$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 150 B) 75 C) 60 D) 30 E) 15

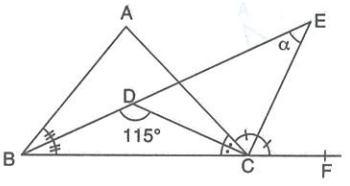
15.



$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$m(\widehat{CBE}) = m(\widehat{EBG})$
$m(\widehat{BCE}) = m(\widehat{ECF})$
$m(\widehat{BDC}) = \alpha + 40°$
$m(\widehat{BEC}) = \alpha - 20°$
$\Rightarrow m(\widehat{GAF}) = ?$

A) 30 B) 45 C) 60 D) 80 E) 90

16.



$m(\widehat{BDC}) = 115°$
$m(\widehat{ABE}) = m(\widehat{EBF})$
$m(\widehat{BCD}) = m(\widehat{DCA})$
$m(\widehat{ACE}) = m(\widehat{ECF})$
$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 15 B) 25 C) 30 D) 35 E) 40

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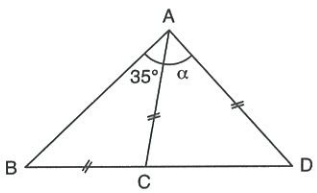
1.



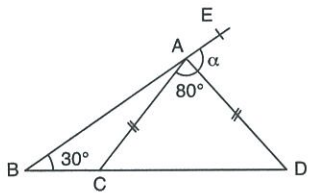
$|BC| = |CA| = |AD|$

$m(\widehat{BAC}) = 35°$

$\Rightarrow m(\widehat{CAD}) = \alpha = ?$

A) 40 B) 45 C) 50 D) 55 E) 60

2.



$|CA| = |AD|$

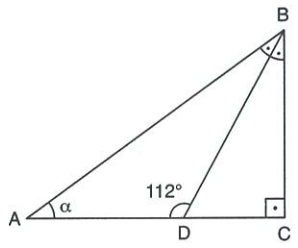
$m(\widehat{ABD}) = 30°$

$m(\widehat{CAD}) = 80°$

$\Rightarrow m(\widehat{EAD}) = \alpha = ?$

A) 55 B) 60 C) 65 D) 70 E) 80

3.



$[BC] \perp [AC]$

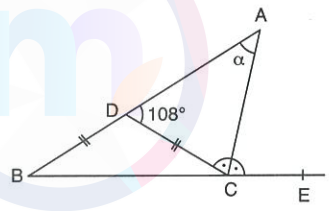
$m(\widehat{ABD}) = m(\widehat{DBC})$

$m(\widehat{ADB}) = 112°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 30 B) 38 C) 42 D) 46 E) 48

4.



$|BD| = |DC|$

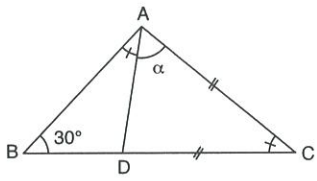
$m(\widehat{ADC}) = 108°$

$m(\widehat{DCA}) = m(\widehat{ACE})$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 9 B) 18 C) 19 D) 20 E) 24

5.



$|AC| = |DC|$

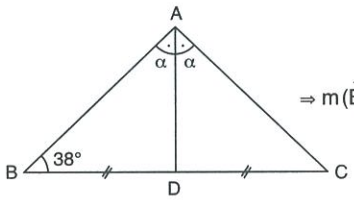
$m(\widehat{ABC}) = 30°$

$m(\widehat{BAD}) = m(\widehat{BCA})$

$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 110 B) 100 C) 80 D) 70 E) 60

6.



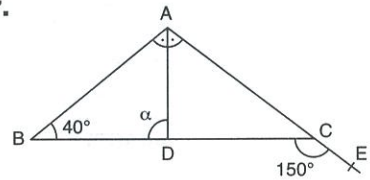
$|BD| = |DC|$

$m(\widehat{ABC}) = 38°$

$\Rightarrow m(\widehat{BAD}) = m(\widehat{DAC}) = \alpha = ?$

A) 32 B) 48 C) 46 D) 52 E) 90

7.



$m(\widehat{ABC}) = 40°$

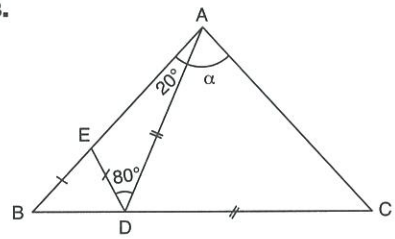
$m(\widehat{BCE}) = 150°$

$m(\widehat{BAD}) = m(\widehat{DAE})$

$\Rightarrow m(\widehat{BDA}) = \alpha = ?$

A) 60 B) 70 C) 75 D) 80 E) 85

8.



$|BE| = |ED|$

$|AD| = |DC|$

$m(\widehat{BAD}) = 20°$

$m(\widehat{EDA}) = 80°$

$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 30 B) 40 C) 50 D) 60 E) 70

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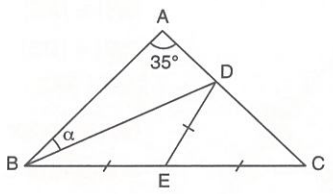
9.



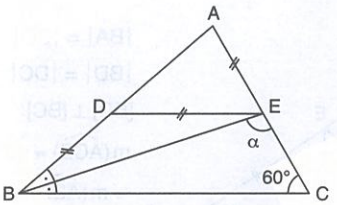
$|DE| = |BE| = |EC|$

$m(\widehat{BAC}) = 35°$

$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 40 B) 45 C) 50 D) 55 E) 60

10.



$|DE| = |AE| = |BD|$

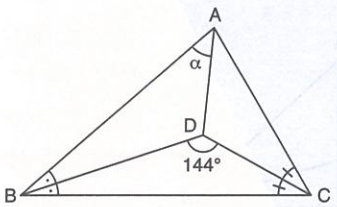
$m(\widehat{ABE}) = m(\widehat{EBC})$

$m(\widehat{BCA}) = 60°$

$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 90 B) 80 C) 70 D) 60 E) 50

11.



$m(\widehat{BDC}) = 144°$

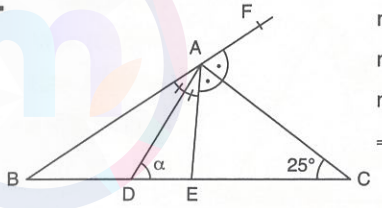
$m(\widehat{ABD}) = m(\widehat{DBC})$

$m(\widehat{BCD}) = m(\widehat{DCA})$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 48 B) 52 C) 54 D) 60 E) 62

12.



$m(\widehat{ACB}) = 25°$

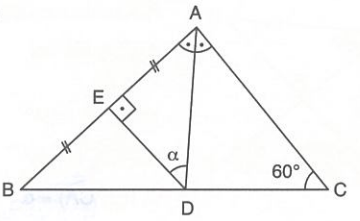
$m(\widehat{BAD}) = m(\widehat{DAE})$

$m(\widehat{FAC}) = m(\widehat{CAE})$

$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 35 B) 45 C) 50 D) 55 E) 65

13.



$|AE| = |EB|$

$[DE] \perp [AB]$

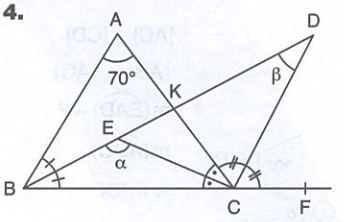
$m(\widehat{BCA}) = 60°$

$m(\widehat{BAD}) = m(\widehat{DAC})$

$\Rightarrow m(\widehat{EDA}) = \alpha = ?$

A) 60 B) 55 C) 50 D) 45 E) 40

14.



[BE], [CE], [CD] açıortay

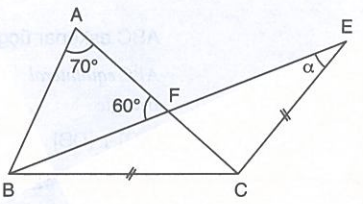
[BE], [CE], [CD] açıortay

$m(\widehat{BAC}) = 70°$

$\Rightarrow \alpha + \beta = ?$

A) 180 B) 175 C) 170 D) 165 E) 160

15.



$|AB| = |AC|$

$|BC| = |CE|$

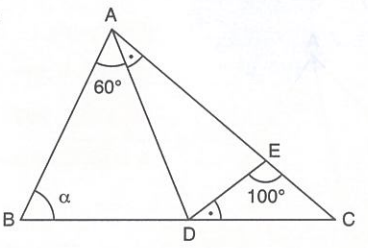
$m(\widehat{BAC}) = 70°$

$m(\widehat{BFA}) = 60°$

$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

16.



$m(\widehat{BAD}) = 60°$

$m(\widehat{DEC}) = 100°$

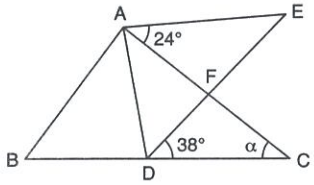
$m(\widehat{DAC}) = m(\widehat{EDC})$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 30 B) 40 C) 50 D) 60 E) 70

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



ADE eşkenar üçgen

ADE equilateral triangle

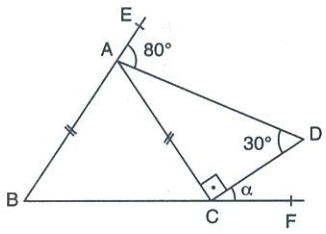
$m(\widehat{CAE}) = 24°$

$m(\widehat{EDC}) = 38°$

$\Rightarrow m(\widehat{BCA}) = \alpha = ?$

A) 40 B) 46 C) 48 D) 50 E) 52

2.



$[AC] \perp [CD]$

$|AB| = |AC|$

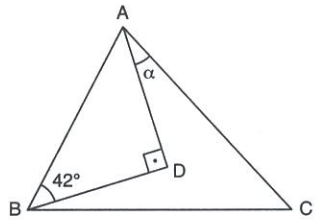
$m(\widehat{EAD}) = 80°$

$m(\widehat{ADC}) = 30°$

$\Rightarrow m(\widehat{DCF}) = \alpha = ?$

A) 20 B) 25 C) 30 D) 35 E) 40

3.



ABC eşkenar üçgen

ABC equilateral triangle

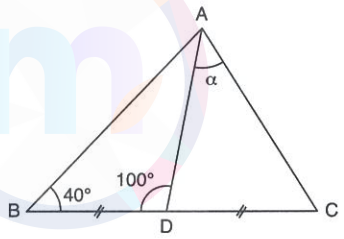
$[AD] \perp [DB]$

$m(\widehat{ABD}) = 42°$

$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 12 B) 16 C) 18 D) 20 E) 22

4.



$|BD| = |DC|$

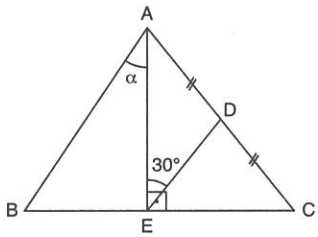
$m(\widehat{ABC}) = 40°$

$m(\widehat{ADB}) = 100°$

$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 35 B) 50 C) 55 D) 60 E) 70

5.



$|AB| = |AC|$

$|AD| = |DC|$

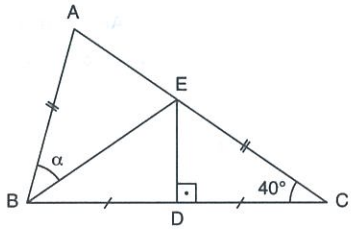
$[AE] \perp [BC]$

$m(\widehat{AED}) = 30°$

$\Rightarrow m(\widehat{BAE}) = \alpha = ?$

A) 25 B) 30 C) 35 D) 40 E) 45

6.



$|BA| = |EC|$

$|BD| = |DC|$

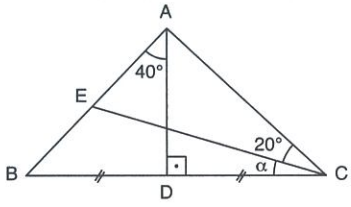
$[ED] \perp [BC]$

$m(\widehat{ACB}) = 40°$

$\Rightarrow m(\widehat{ABE}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

7.



$|BD| = |DC|$

$[AD] \perp [BC]$

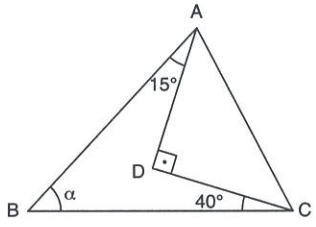
$m(\widehat{ACE}) = 20°$

$m(\widehat{BAD}) = 40°$

$\Rightarrow m(\widehat{ECB}) = \alpha = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

8.



$[AD] \perp [DC]$

$m(\widehat{BAD}) = 15°$

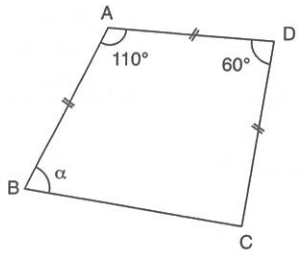
$m(\widehat{DCB}) = 40°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 30 B) 35 C) 40 D) 45 E) 60

PUZA YAYINLARI

9.



$|BA| = |AD| = |DC|$

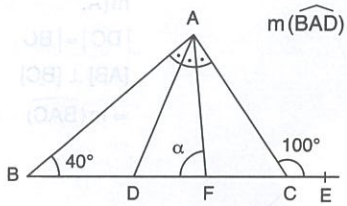
$m(\widehat{ADC}) = 60°$

$m(\widehat{BAD}) = 110°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 45 B) 50 C) 55 D) 60 E) 65

10.



$m(\widehat{BAD}) = m(\widehat{DAF}) = m(\widehat{FAC})$

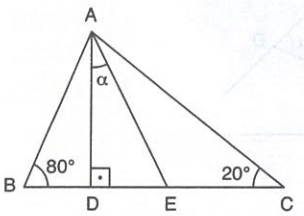
$m(\widehat{ABE}) = 40°$

$m(\widehat{ACE}) = 100°$

$\Rightarrow m(\widehat{AFB}) = \alpha = ?$

A) 40 B) 50 C) 60 D) 80 E) 100

11.



$[AD] \perp [BC]$

$m(\widehat{ACB}) = 20°$

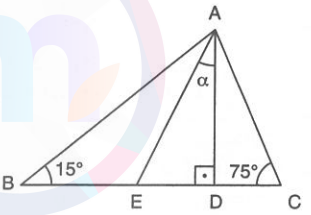
$m(\widehat{ABC}) = 80°$

$m(\widehat{BAE}) = m(\widehat{EAC})$

$\Rightarrow m(\widehat{DAE}) = \alpha = ?$

A) 20 B) 25 C) 30 D) 40 E) 50

12.



$[AD] \perp [BC]$

$m(\widehat{ABC}) = 15°$

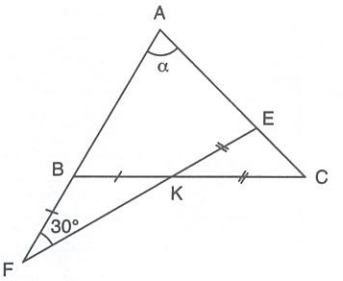
$m(\widehat{ACB}) = 75°$

$m(\widehat{BAE}) = m(\widehat{EAC})$

$\Rightarrow m(\widehat{EAD}) = \alpha = ?$

A) 30 B) 35 C) 40 D) 45 E) 50

13.



$|KE| = |KC|$

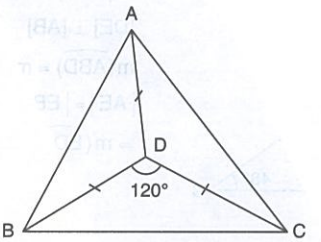
$|BK| = |BF|$

$m(\widehat{AFE}) = 30°$

$\Rightarrow m(\widehat{FAC}) = \alpha = ?$

A) 45 B) 50 C) 55 D) 60 E) 65

14.



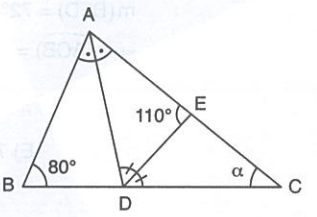
$|AD| = |BD| = |CD|$

$m(\widehat{BDC}) = 120°$

$\Rightarrow m(\widehat{BAC}) = ?$

A) 40 B) 60 C) 80 D) 90 E) 100

15.



[AD] ve [DE] açıortay

[AD] and [DE] açıortay

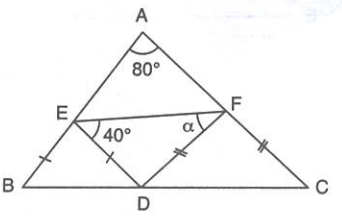
$m(\widehat{ABC}) = 80°$

$m(\widehat{AED}) = 110°$

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 60 B) 55 C) 50 D) 45 E) 40

16.



$|BE| = |ED|$

$|DF| = |FC|$

$m(\widehat{BAC}) = 80°$

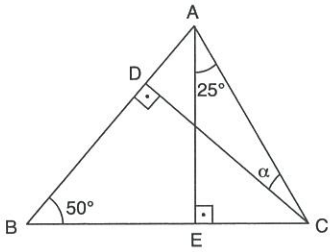
$m(\widehat{FED}) = 40°$

$\Rightarrow m(\widehat{EFD}) = \alpha = ?$

A) 40 B) 50 C) 60 D) 70 E) 80

PUZA YAYINLARI

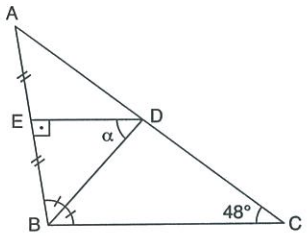
1.



$m(\widehat{EAC}) = 25°$
$m(\widehat{ABC}) = 50°$
$[BA] \perp [DC]$
$[AE] \perp [BC]$
$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 25 B) 30 C) 35 D) 40 E) 45

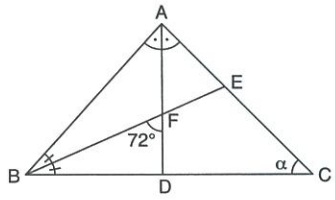
2.



$m(\widehat{ACB}) = 48°$
$[DE] \perp [AB]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AE| = |EB|$
$\Rightarrow m(\widehat{EDB}) = \alpha = ?$

A) 44 B) 46 C) 48 D) 52 E) 56

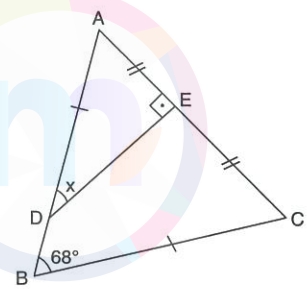
3.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{BFD}) = 72°$
$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 32 B) 36 C) 46 D) 72 E) 78

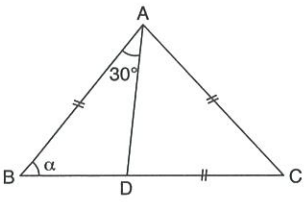
4.



$m(\widehat{ABC}) = 68°$
$[DE] \perp [AC]$
$|AE| = |EC|$
$|AD| = |BC|$
$\Rightarrow m(\widehat{ADE}) = x = ?$

A) 44 B) 46 C) 56 D) 66 E) 68

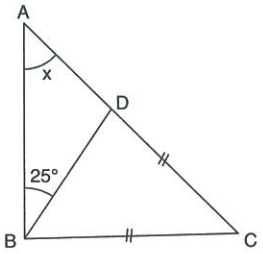
5.



$m(\widehat{BAD}) = 30°$
$|AC| = |DC| = |AB|$
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 30 B) 40 C) 60 D) 70 E) 80

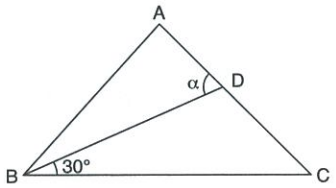
6.



$m(\widehat{ABD}) = 25°$
$|DC| = |BC|$
$[AB] \perp [BC]$
$\Rightarrow m(\widehat{BAC}) = x = ?$

A) 25 B) 30 C) 35 D) 40 E) 45

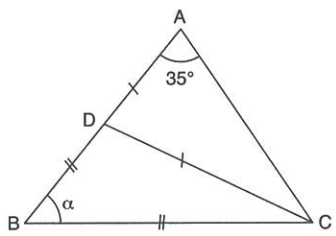
7.



$m(\widehat{DBC}) = 30°$
$|AB| = |AC|$
$|AD| = |BD|$
$\Rightarrow m(\widehat{ADB}) = \alpha = ?$

A) 40 B) 70 C) 90 D) 100 E) 110

8.

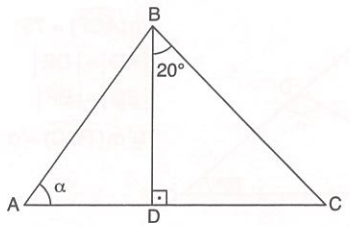


$m(\widehat{BAC}) = 35°$
$|AD| = |DC|$
$|BD| = |BC|$
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 20 B) 40 C) 60 D) 80 E) 100

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

9.



$m(\widehat{DBC}) = 20°$

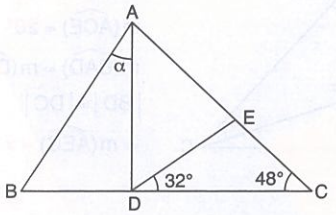
$[BD] \perp [AC]$

$|AB| = |AC|$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 60 E) 70

10.



$m(\widehat{EDC}) = 32°$

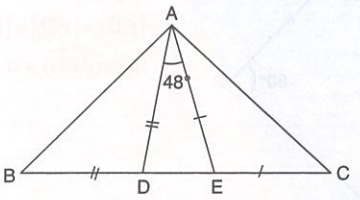
$m(\widehat{ACB}) = 48°$

$|AE| = |AD| = |AB|$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 44 B) 46 C) 54 D) 64 E) 68

11.



$m(\widehat{DAE}) = 48°$

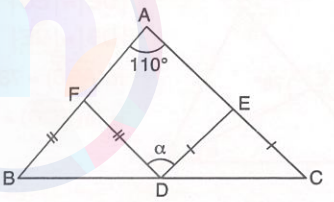
$|AD| = |BD|$

$|AE| = |EC|$

$\Rightarrow m(\widehat{BAC}) = ?$

A) 64 B) 66 C) 104 D) 114 E) 124

12.



$m(\widehat{BAC}) = 110°$

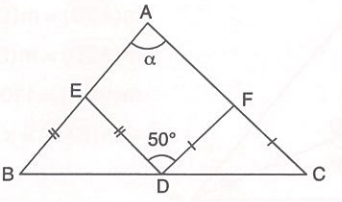
$|BF| = |FD|$

$|DE| = |EC|$

$\Rightarrow m(\widehat{FDE}) = \alpha = ?$

A) 40 B) 70 C) 110 D) 120 E) 130

13.



$m(\widehat{EDF}) = 50°$

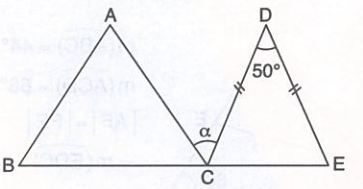
$|BE| = |ED|$

$|DF| = |FC|$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 40 B) 50 C) 80 D) 100 E) 130

14.



ABC eşkenar üçgen

ABC equilateral triangle

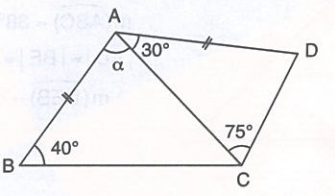
$m(\widehat{CDE}) = 50°$

$|DC| = |DE|$

$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 50 B) 55 C) 60 D) 65 E) 70

15.



$|AB| = |AD|$

$m(\widehat{ABC}) = 40°$

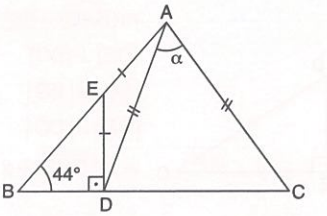
$m(\widehat{CAD}) = 30°$

$m(\widehat{ACD}) = 75°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 80 B) 95 C) 100 D) 110 E) 120

16.



$m(\widehat{ABC}) = 44°$

$|AE| = |ED|$

$|AD| = |AC|$

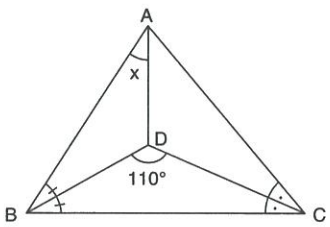
$[ED] \perp [BC]$

$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 23 B) 44 C) 46 D) 48 E) 56

PUZA YAYINLARI

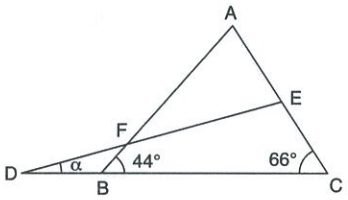
1.



$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$m(\widehat{BDC}) = 110°$
$\Rightarrow m(\widehat{BAD}) = x = ?$

A) 20 B) $\frac{55}{2}$ C) 40 D) 55 E) 70

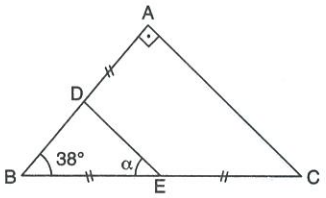
2.



$m(\widehat{ABC}) = 44°$
$m(\widehat{ACD}) = 66°$
$|AF| = |FE|$
$\Rightarrow m(\widehat{EDC}) = \alpha = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

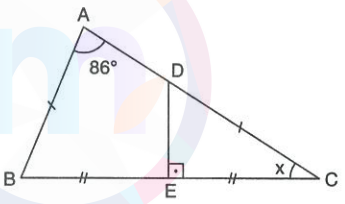
3.



$[AB] \perp [AC]$
$m(\widehat{ABC}) = 38°$
$|AD| = |BE| = |EC|$
$\Rightarrow m(\widehat{DEB}) = \alpha = ?$

A) 23 B) 28 C) 33 D) 38 E) 43

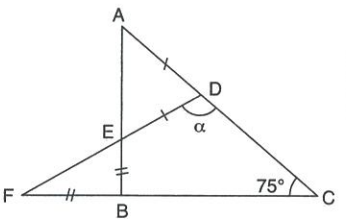
4.



$m(\widehat{BAC}) = 86°$
$[DE] \perp [BC]$
$|BE| = |EC|$
$|AB| = |DC|$
$\Rightarrow m(\widehat{DCE}) = x = ?$

A) 43 B) 46 C) 56 D) 66 E) 68

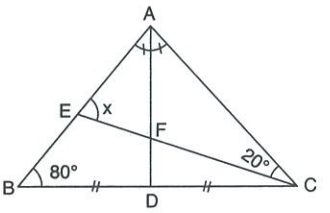
5.



$m(\widehat{ACF}) = 75°$
$|AD| = |DE|$
$|EB| = |BF|$
$\Rightarrow m(\widehat{FDC}) = \alpha = ?$

A) 65 B) 70 C) 75 D) 80 E) 85

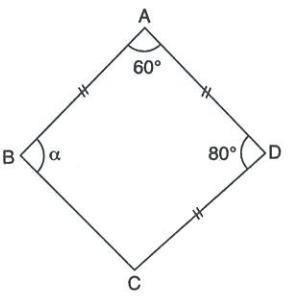
6.



$m(\widehat{ABC}) = 80°$
$m(\widehat{ACE}) = 20°$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|BD| = |DC|$
$\Rightarrow m(\widehat{AEC}) = x = ?$

A) 90 B) 100 C) 110 D) 120 E) 140

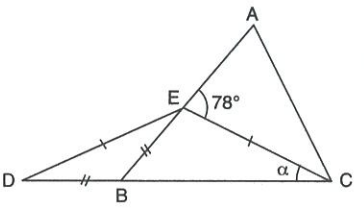
7.



$m(\widehat{BAD}) = 60°$
$m(\widehat{ADC}) = 80°$
$|AB| = |AD| = |DC|$
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 60 B) 80 C) 100 D) 130 E) 140

8.



$|DE| = |EC|$
$|DB| = |BE|$
$m(\widehat{AEC}) = 78°$
$\Rightarrow m(\widehat{ECD}) = \alpha = ?$

A) 22 B) 24 C) 26 D) 28 E) 30

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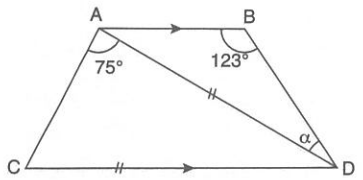
PUZA YAYINLARI

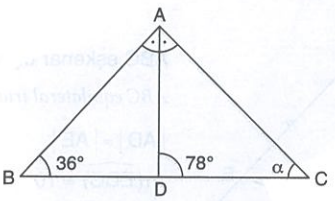
9.



[AB]//[CD]
$m(\widehat{ABD}) = 123°$
$m(\widehat{CAD}) = 75°$
$|AD| = |CD|$
$\Rightarrow m(\widehat{BDA}) = \alpha = ?$

A) 27 B) 30 C) 33 D) 37 E) 40

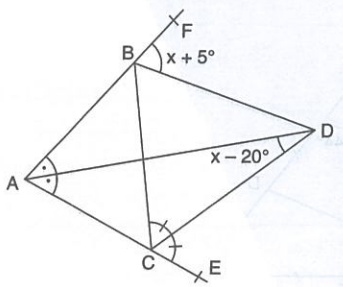
10.



$m(\widehat{ABC}) = 36°$
$m(\widehat{ADC}) = 78°$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 36 B) 40 C) 48 D) 60 E) 68

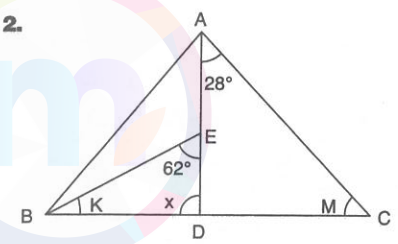
11.



$m(\widehat{DBF}) = x + 5°$
$m(\widehat{ADC}) = x - 20°$
$m(\widehat{FAD}) = m(\widehat{DAE})$
$m(\widehat{BCD}) = m(\widehat{DCE})$
$\Rightarrow m(\widehat{CBD}) = ?$

A) 47,5 B) 50 C) 52,5 D) 55 E) 57,5

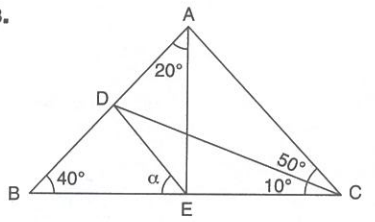
12.



$m(\widehat{DAC}) = 28°$
$m(\widehat{BED}) = 62°$
$m(\widehat{EBC}) = K$
$m(\widehat{ACB}) = M$
$K - M = 16°$
$\Rightarrow m(\widehat{ADB}) = x = ?$

A) 27 B) 37 C) 45 D) 65 E) 68

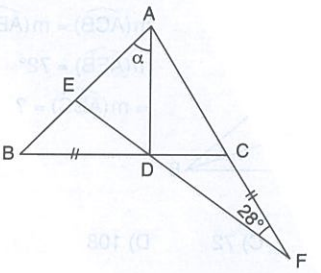
13.



$m(\widehat{BAE}) = 20°$
$m(\widehat{ABC}) = 40°$
$m(\widehat{ACD}) = 50°$
$m(\widehat{DCB}) = 10°$
$\Rightarrow m(\widehat{DEB}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

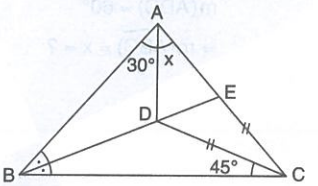
14.



ABC eşkenar üçgen
ABC equilateral triangle
$m(\widehat{AFE}) = 28°$
$|BD| = |CF|$
$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 28 B) 32 C) 38 D) 40 E) 48

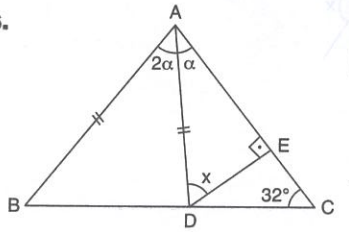
15.



$m(\widehat{BAD}) = 30°$
$m(\widehat{DCB}) = 45°$
$|EC| = |DC|$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$\Rightarrow m(\widehat{DAE}) = x = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

16.



$m(\widehat{BAD}) = 2 \cdot m(\widehat{DAC})$
$|AB| = |AD|$
$[DE] \perp [AC]$
$m(\widehat{ACB}) = 32°$
$\Rightarrow m(\widehat{ADE}) = x = ?$

A) 32 B) 37 C) 61 D) 60 E) 66

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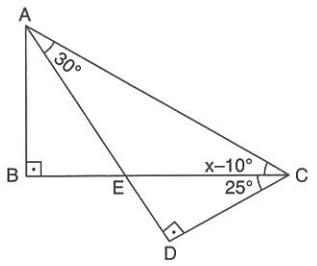
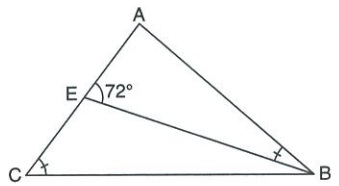
1.



$m(\widehat{DAC}) = 30°$
$m(\widehat{ACB}) = x - 10°$
$m(\widehat{BCD}) = 25°$
$[AB] \perp [BC]$
$[AD] \perp [DC]$
$\Rightarrow x = ?$

A) 25 B) 35 C) 45 D) 50 E) 65

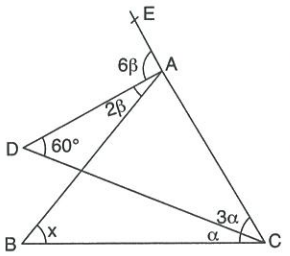
2.



$m(\widehat{ACB}) = m(\widehat{ABE})$
$m(\widehat{AEB}) = 72°$
$\Rightarrow m(\widehat{ABC}) = ?$

A) 18 B) 36 C) 72 D) 108 E) 144

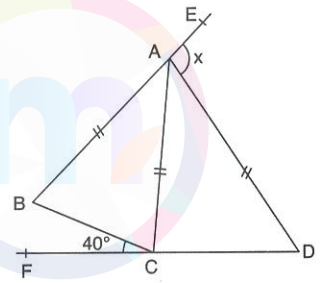
3.



$3m(\widehat{DAB}) = m(\widehat{DAE}) = 6\beta$
$m(\widehat{ECD}) = 3m(\widehat{DCB}) = 3\alpha$
$m(\widehat{ADC}) = 60°$
$\Rightarrow m(\widehat{ABC}) = x = ?$

A) 70 B) 80 C) 90 D) 100 E) 110

4.

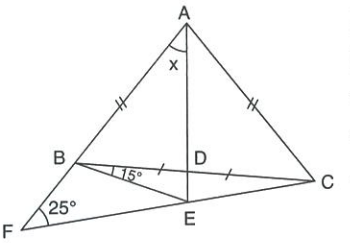


$|AB| = |AC| = |AD|$
$m(\widehat{BCF}) = 40°$
$\Rightarrow m(\widehat{EAD}) = x = ?$

A) 40 B) 60 C) 80 D) 100 E) 120

PUZA YAYINLARI

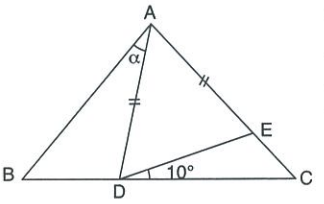
5.



$|AB| = |AC|$
$|BD| = |DC|$
$m(\widehat{AFC}) = 25°$
$m(\widehat{EBC}) = 15°$
$\Rightarrow m(\widehat{FAE}) = x = ?$

A) 15 B) 25 C) 40 D) 50 E) 60

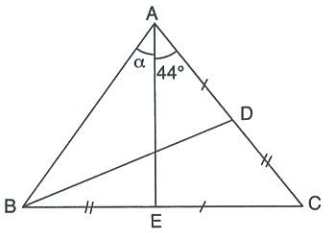
6.



ABC eşkenar üçgen
ABC equilateral triangle
$|AD| = |AE|$
$m(\widehat{EDC}) = 10°$
$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

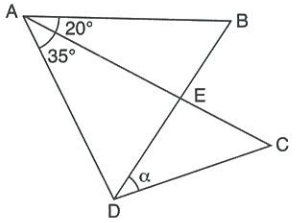
7.



$|AD| = |EC| = |AE|$
$|DC| = |BE|$
$m(\widehat{EAC}) = 44°$
$\Rightarrow m(\widehat{BAE}) = \alpha = ?$

A) 12 B) 22 C) 24 D) 28 E) 32

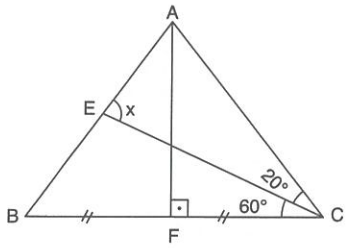
8.



$|BD| = |AD| = |AC|$
$m(\widehat{CAB}) = 20°$
$m(\widehat{CAD}) = 35°$
$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 2,5 B) 3 C) 4 D) 5 E) 7,5

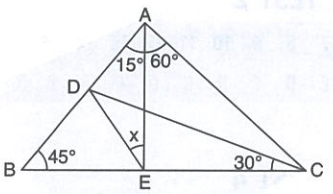
9.



$[AF] \perp [BC]$
$m(\widehat{ACE}) = 20°$
$m(\widehat{ECB}) = 60°$
$|BF| = |FC|$
$\Rightarrow m(\widehat{AEC}) = x = ?$

A) 80 B) 100 C) 120 D) 140 E) 160

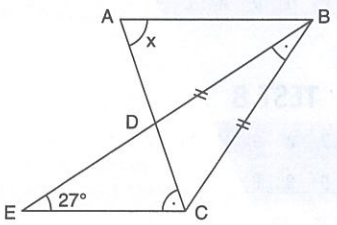
10.



$m(\widehat{BAE}) = 15°$
$m(\widehat{EAC}) = 60°$
$m(\widehat{ABC}) = 45°$
$m(\widehat{DCB}) = 30°$
$\Rightarrow m(\widehat{DEA}) = x = ?$

A) 15 B) 20 C) 25 D) 30 E) 35

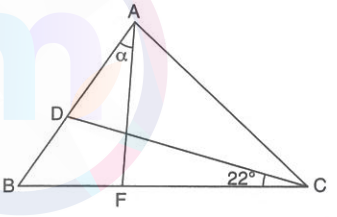
11.



$|AB| = |AC|$
$|BD| = |BC|$
$m(\widehat{BEC}) = 27°$
$m(\widehat{EBC}) = m(\widehat{ACE})$
$\Rightarrow m(\widehat{BAC}) = x = ?$

A) 24 B) 25 C) 27 D) 31 E) 42

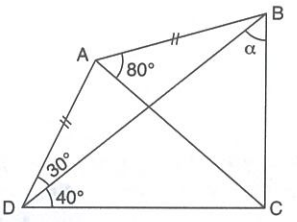
12.



$m(\widehat{DCB}) = 22°$
$|AC| = |AF| = |AD|$
$\Rightarrow m(\widehat{BAF}) = \alpha = ?$

A) 11 B) 12 C) 33 D) 44 E) 55

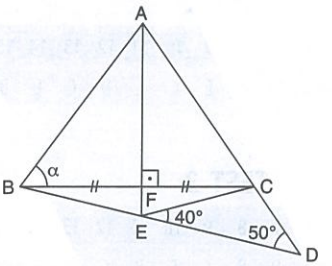
13.



$|AB| = |AD|$
$m(\widehat{BAC}) = 80°$
$m(\widehat{ADB}) = 30°$
$m(\widehat{BDC}) = 40°$
$\Rightarrow m(\widehat{DBC}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

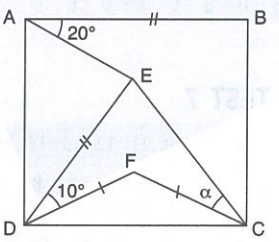
14.



$|BF| = |FC|$
$[AF] \perp [BC]$
$m(\widehat{CED}) = 40°$
$m(\widehat{ADB}) = 50°$
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 70 E) 80

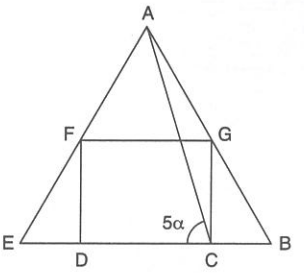
15.



ABCD kare
ABCD square
$|DF| = |FC|$
$|AB| = |DE|$
$m(\widehat{BAE}) = 20°$
$m(\widehat{EDF}) = 10°$
$\Rightarrow m(\widehat{ECF}) = \alpha = ?$

A) 10 B) 25 C) 40 D) 50 E) 80

16.



AEB eşkenar üçgen
AEB equilateral triangle
FGCD kare
FGCD square
$m(\widehat{ACE}) = \alpha$
$\Rightarrow \alpha = ?$

A) 9 B) 10 C) 14 D) 15 E) 16

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PUZA YAYINLARI

ÜÇGENDE AÇILAR ANGLES OF TRIANGLE

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	A	D	A	D	B	A	E	C	E	D	C	E	B	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	D	C	B	E	C	D	C	D	B	D	C	B	B	C

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	C	B	A	B	D	B	C	E	B	C	D	E	E	B

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	E	D	A	C	D	D	C	D	D	A	E	A	C	B

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	B	D	C	D	D	B	D	B	C	B	D	B	E	C	B

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	E	D	A	D	D	E	D	D	A	C	E	C	E	A	B

TEST 7

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	A	A	B	B	A	E	B	E	E	C	A	A	B	A	C

TEST 8

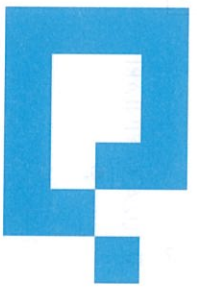
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	B	B	C	B	D	D	B	B	A	D	C	B	B	C	C

TEST 9

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	A	C	A	B	E	E	C	A	D	E	D	C	B	C	C

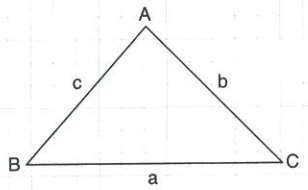
TEST 10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	B	D	D	A	C	A	D	A	E	D	A	D	B	D



AÇI-KENAR BAĞINTILARI
ANGLE-SIDE RELATIONSHIPS

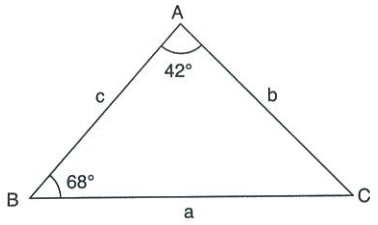
ÖZELLİK|Property 1



$m(\widehat{A}) > m(\widehat{B}) > m(\widehat{C})$

$\Rightarrow$ $a > b > c$

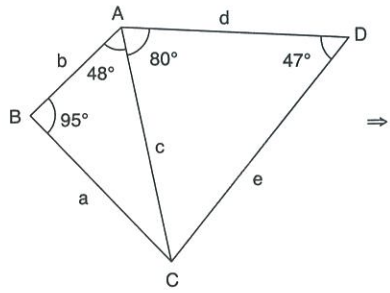
1.



$\Rightarrow ? < ? < ?$

a < b < c

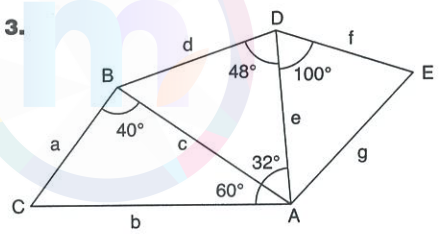
2.



$\Rightarrow ? < ? < ? < ? < ?$

b < a < c < d < e

3.

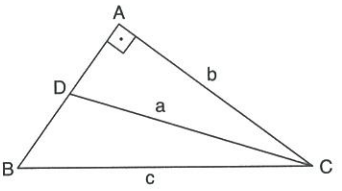


En uzun kenar hangisidir?

Which side is the longest?

g

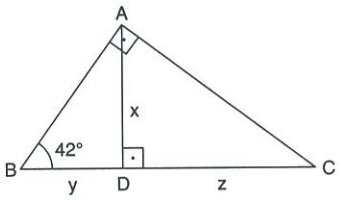
4.



$\Rightarrow ? > ? > ?$

c > a > b

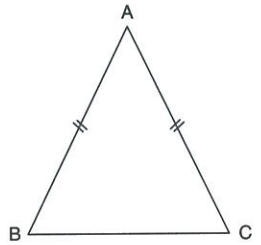
5.



$\Rightarrow ? > ? > ?$

y > x > z

6.



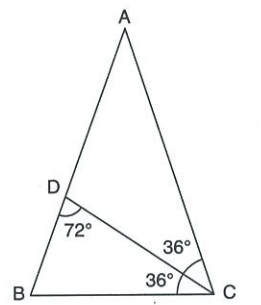
$m(\widehat{B}) \in Z$

$m(\widehat{A}) < 40°$

$\Rightarrow \min(\widehat{B}) = ?$

71

7.



I. $|AB| = |AC|$

II. $|AC| = |BC|$

III. $|BD| < |AD|$

IV. $|AC| > |BD|$

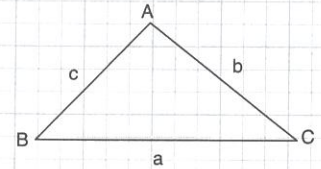
Hangileri doğrudur?

Hangileri doğrudur?

I, III, IV

PUZA YAYINLARI

ÖZELLİK | Property 2

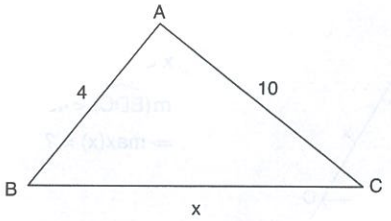


$|b-c| < a < b+c$

$|a-c| < b < a+c$

$|a-b| < c < a+b$

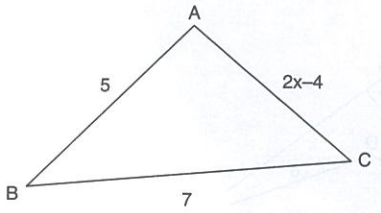
1.



$\Rightarrow ? < x < ?$

6 < x < 14

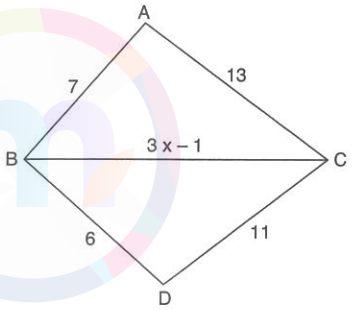
2.



$\Rightarrow ? < x < ?$

3 < x < 8

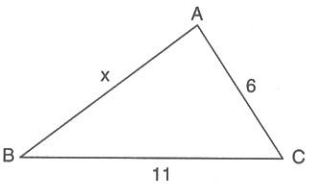
3.



$\Rightarrow ? < x < ?$

$\frac{7}{3} < x < 6$

4.



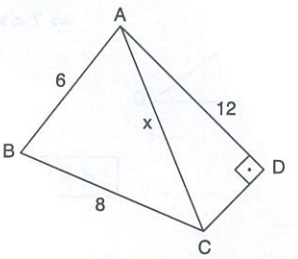
$x \in N^+$

$m(\widehat{A}) > m(\widehat{C}) > m(\widehat{B})$

$\Rightarrow \sum x = ?$

34

5.

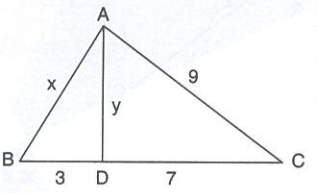


$x \in N^+$

$\Rightarrow x = ?$

13

6.



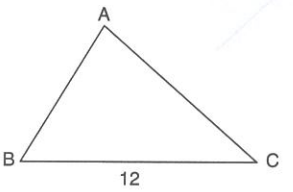
$y, x \in N^+$

min(y) için *(for Min(y))*

$\Rightarrow \max(x) = ?$

5

7.



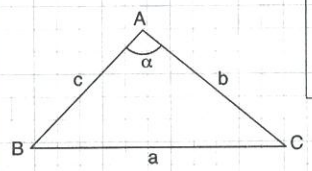
$Ç(ABC) \in Z$

$\Rightarrow \min(Ç(ABC)) = ?$

25

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK | Property 3

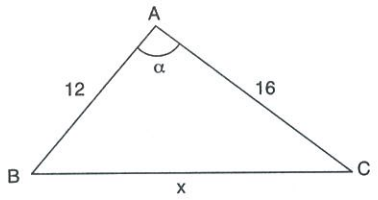


$\alpha = 90° \Rightarrow a^2 = b^2 + c^2$

$\alpha > 90° \Rightarrow a^2 > b^2 + c^2$

$\alpha < 90° \Rightarrow a^2 < b^2 + c^2$

1.

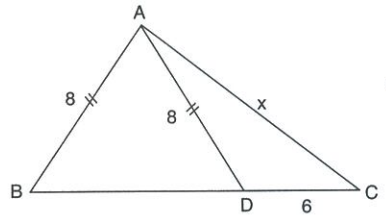


$\alpha < 90°$

$\Rightarrow ? < x < ?$

4 < x < 20

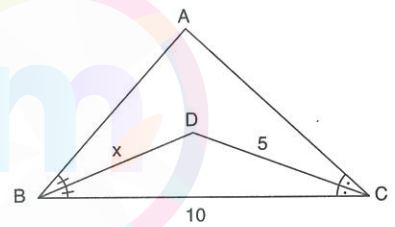
2.



$\Rightarrow ? < x < ?$

10 < x < 14

3.

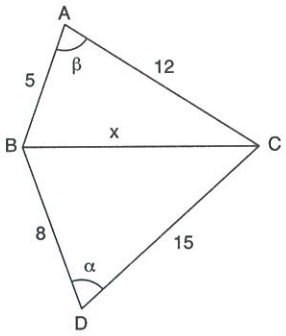


$x \in N$

$\Rightarrow \max(x) = ?$

8

4.



$x \in Z$

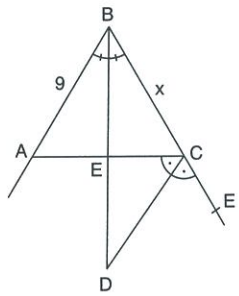
$\alpha < 90°$

$\beta < 90°$

$\Rightarrow \sum x = ?$

50

5.



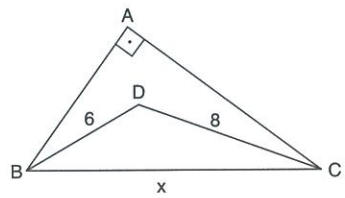
$x \in Z$

$m(\widehat{BDC}) < 45°$

$\Rightarrow \max(x) = ?$

8

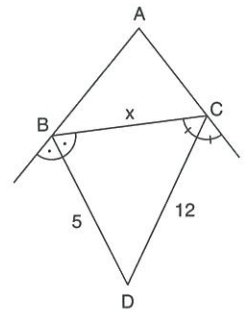
6.



$\Rightarrow ? < x < ?$

10 < x < 14

7.



$x \in Z$

$\Rightarrow \max(x) + \min(x) = ?$

20

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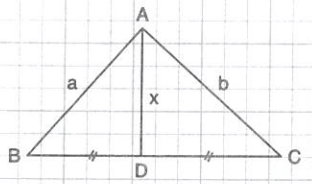
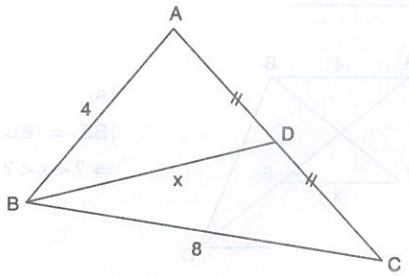
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 4



$$\frac{|a-b|}{2} < x < \frac{a+b}{2}$$

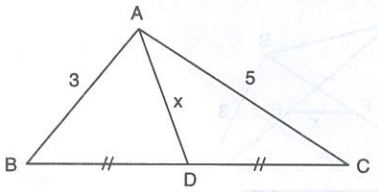
1.



$\Rightarrow ? < x < ?$

2 < x < 6

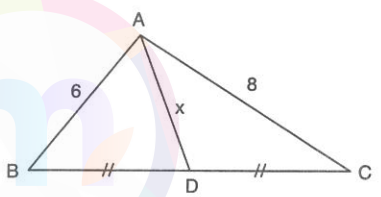
2.



$\Rightarrow ? < x < ?$

1 < x < 4

3.

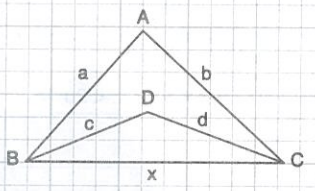


$m(\widehat{A}) > 90°$

$\Rightarrow ? < x < ?$

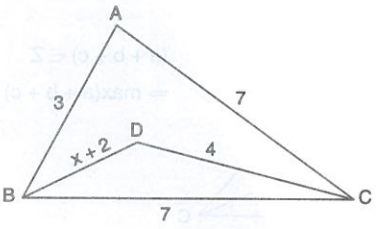
1 < x < 5

ÖZELLİK|Property 5



$$x < c + d < a + b$$

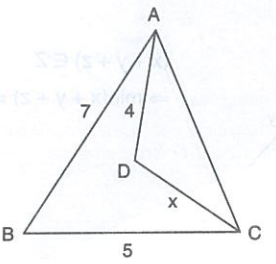
1.



$\Rightarrow ? < x < ?$

1 < x < 4

2.

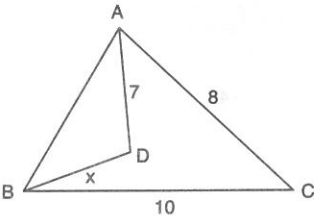


$x \in Z$

$\Rightarrow \max(x) = ?$

7

3.



$x \in Z$

$\Rightarrow \max(x) = ?$

10

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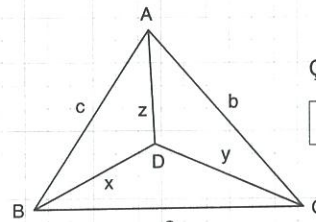
PUZA YAYINLARI
PUZA YAYINLARI

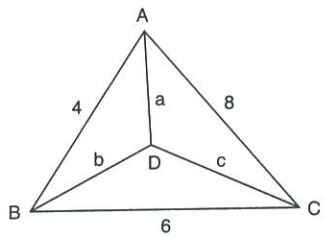
ÖZELLİK|Property 6



Ç(ABC) = 2u = a + b + c

$u < x + y + z < 2u$

1.

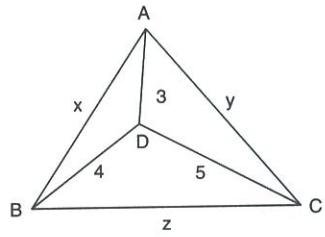


$(a + b + c) \in Z$

$\Rightarrow \max(a + b + c) = ?$

17

2.

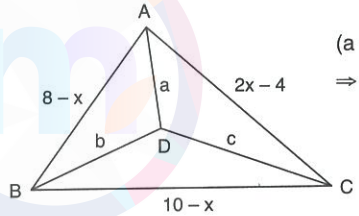


$(x + y + z) \in Z$

$\Rightarrow \min(x + y + z) = ?$

13

3.

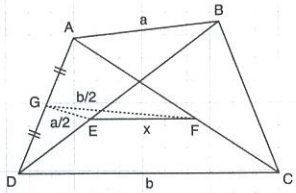


$(a + b + c) \in Z$

$\Rightarrow \max(a + b + c) = ?$

13

ÖZELLİK|Property 7

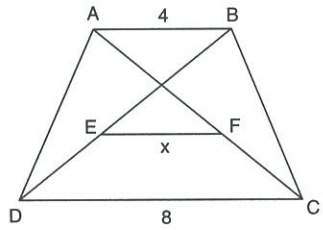


$|AF| = |FC|$

$|BE| = |ED|$

$\frac{|a-b|}{2} < x < \frac{a+b}{2}$

1.



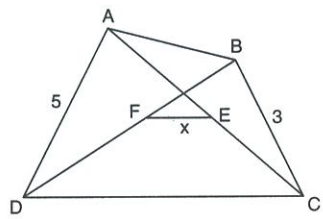
$|AF| = |FC|$

$|BE| = |ED|$

$\Rightarrow ? < x < ?$

$2 < x < 6$

2.



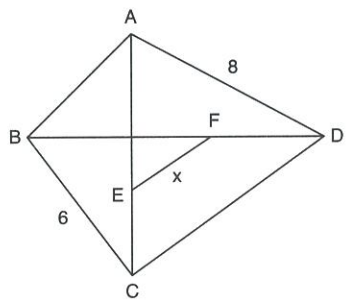
$|AE| = |EC|$

$|DF| = |FB|$

$\Rightarrow ? < x < ?$

$1 < x < 4$

3.



$|BF| = |FD|$

$|AE| = |EC|$

$\Rightarrow ? < x < ?$

$1 < x < 7$

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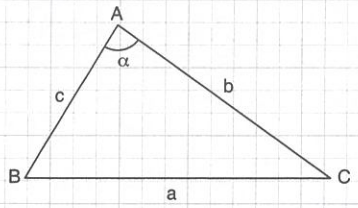
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 8

Kosinüs Teoremi *(Cosinus Theorem)*



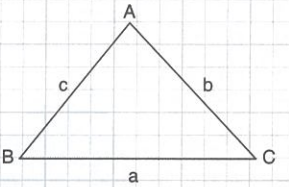
$\cos 30° = \frac{\sqrt{3}}{2}$

$\cos 60° = \frac{1}{2}$

$\cos 45° = \frac{\sqrt{2}}{2}$

$a^2 = b^2 + c^2 - 2bc \cdot \cos\alpha$

ÖZELLİK|Property 9



$m(\widehat{A}) > m(\widehat{B}) > m(\widehat{C})$

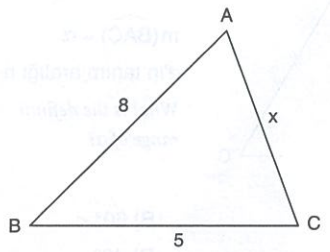
1) $a > b > c$
2) $h_a < h_b < h_c$
3) $n_A < n_B < n_C$
4) $V_a < V_b < V_c$

h: Yükseklik *(height)*

n: Açıortay *(bisector)*

V: Kenarortay *(median)*

1.

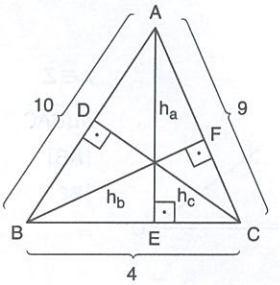


$m(\widehat{B}) < 60°$

$\Rightarrow ? < x < ?$

$3 < x < 7$

1.

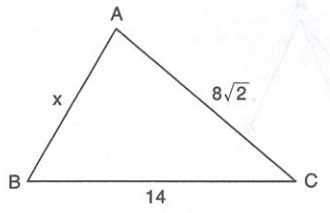


h_a, h_b, h_c

$\Rightarrow ? > ? > ?$

$h_a > h_b > h_c$

2.



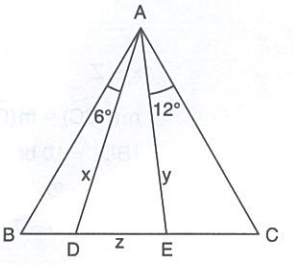
$x \in Z$

$m(\widehat{C}) > 45°$

$\Rightarrow \min(x) = ?$

11

2.



ABC eşkenar üçgen

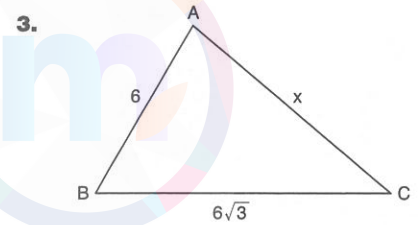
ABC equilateral triangle

V_x, V_y, V_z

$\Rightarrow ? > ? > ?$

$V_z > V_y > V_x$

3.



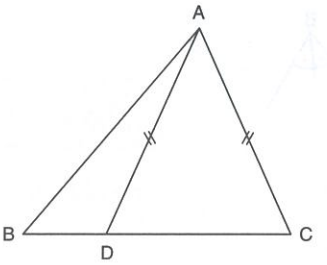
$x \in Z$

$m(\widehat{B}) > 30°$

$\Rightarrow \min(x) = ?$

7

3.



$m(\widehat{DAC}) = 60°$

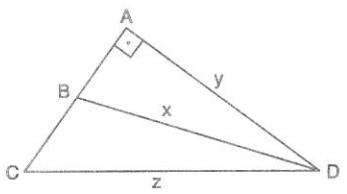
n_A, n_B, n_C

$\Rightarrow ? > ? > ?$

$n_B > n_C > n_A$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



$[CA] \perp [AD]$

$|CD| = z$

$|BD| = x$

$|AD| = y$

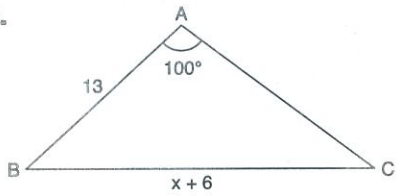
Aşağıdakilerden hangisi doğrudur?

Which one of the following is correct?

A) $x > y > z$ B) $z > x > y$ C) $y > x > z$

D) $y > z > x$ E) $x > z > y$

2.



$x \in Z$

$m(\widehat{BAC}) = 100°$

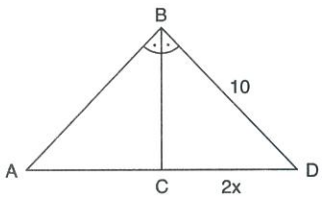
$|AB| = 13$ br

$|BC| = x + 6$

$\Rightarrow \min(x) = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

3.



$x \in Z$

$m(\widehat{ABC}) = m(\widehat{CBD})$

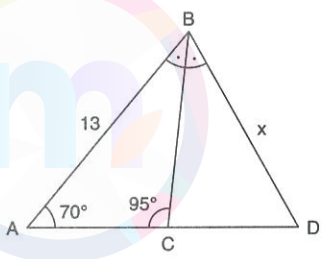
$|BD| = 10$ br

$|CD| = 2x$

$\Rightarrow \max(x) = ?$

A) 6 B) 5 C) 4 D) 3 E) 2

4.



$x \in Z$

$m(\widehat{ABC}) = m(\widehat{CBD})$

$m(\widehat{BAD}) = 70°$

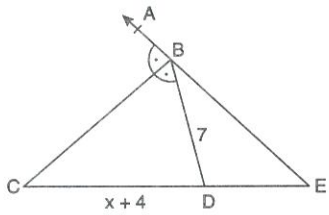
$m(\widehat{BCA}) = 95°$

$\Rightarrow \max(x) = ?$

A) 15 B) 14 C) 13 D) 12 E) 11

PUZA YAYINLARI

5.



$x \in Z$

$m(\widehat{ABC}) = m(\widehat{CBD})$

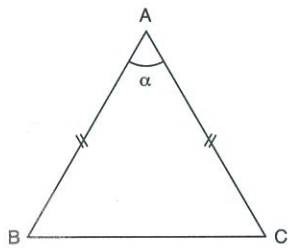
$|BD| = 7$ br

$|CD| = x + 4$

$\Rightarrow \min(x) = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

6.



$|AB| = |AC|$

$20° < m(\widehat{B}) < 60°$

$m(\widehat{BAC}) = \alpha$

α'in tanım aralığı nedir?

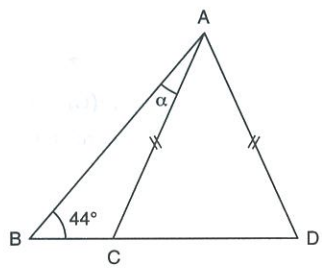
What is the definition range of α?

A) $60° < \alpha < 140°$ B) $60° < \alpha < 120°$

C) $40° < \alpha < 140°$ D) $40° < \alpha < 60°$

E) $40° < \alpha < 120°$

7.



$\alpha \in Z$

$|AC| = |AD|$

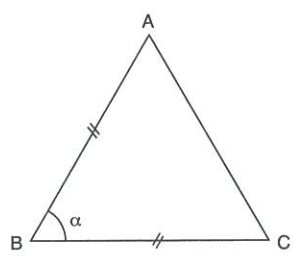
$m(\widehat{ABD}) = 44°$

$m(\widehat{BAC}) = \alpha$

$\Rightarrow \max(\alpha) = ?$

A) 44 B) 45 C) 46 D) 47 E) 48

8.



$\alpha \in Z$

$|AB| = |BC|$

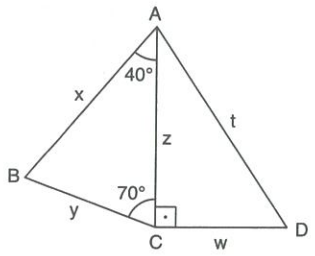
$m(\widehat{A}) > 50°$

$m(\widehat{ABC}) = \alpha$

$\Rightarrow \max(\alpha) = ?$

A) 80 B) 81 C) 77 D) 78 E) 79

9.



[AC] ⊥ [CD]

$m(\widehat{BAC}) = 40°$

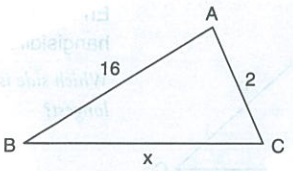
$m(\widehat{BCA}) = 70°$

En uzun kenar hangisidir?

Which side is the longest?

A) x B) y C) z D) t E) w

10.



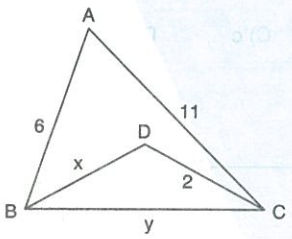
$x \in Z$

$m(\widehat{B}) < m(\widehat{A}) < m(\widehat{C})$

$\Rightarrow x = ?$

A) 13 B) 14 C) 15 D) 16 E) 17

11.



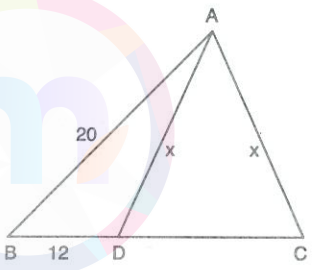
$x, y \in Z$

min(y) için *[for min(y)]*

$\Rightarrow$ max(x) = ?

A) 3 B) 4 C) 5 D) 6 E) 7

12.



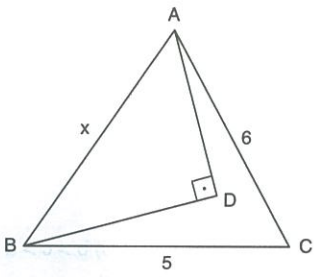
$x \in Z$

$|AC| = |AD| = x$

$\Rightarrow$ max(x) = ?

A) 17 B) 16 C) 15 D) 14 E) 13

13.



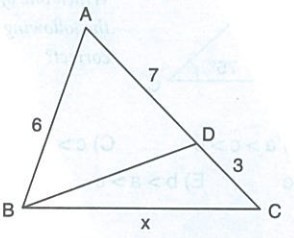
$x \in Z$

$[AD] \perp [BD]$

$\Rightarrow$ max(x) = ?

A) 7 B) 8 C) 9 D) 10 E) 11

14.

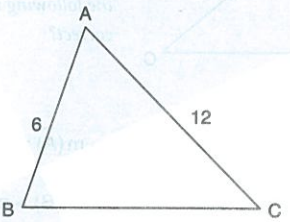


$x \in Z$

$\Rightarrow$ max(x) = ?

A) 15 B) 14 C) 13 D) 12 E) 11

15.

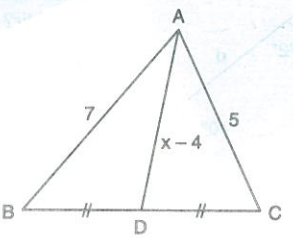


Ç(ABC) ∈ Z

$\Rightarrow$ max[Ç(ABC)] = ?

A) 37 B) 32 C) 34 D) 36 E) 35

16.



$|BD| = |DC|$

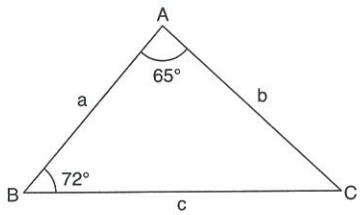
x'in tanım aralığı nedir?

What is the definition range of x?

A) $5 < x < 8$ B) $10 < x < 12$ C) $6 < x < 16$
D) $5 < x < 10$ E) $6 < x < 10$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



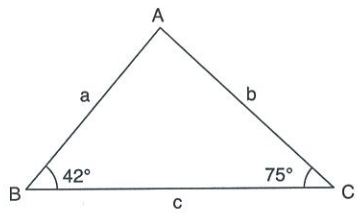
Aşağıdakilerden hangisi doğrudur?

Which one of the following is correct?

A) a > b > c B) b > a > c C) b > c > a

D) c > b > a E) a > c > b

2.



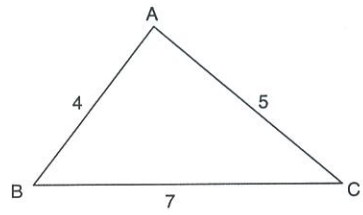
Aşağıdakilerden hangisi doğrudur?

Which one of the following is correct?

A) c > a > b B) a > c > b C) c > b > a

D) a > b > c E) b > a > c

3.



Aşağıdakilerden hangisi doğrudur?

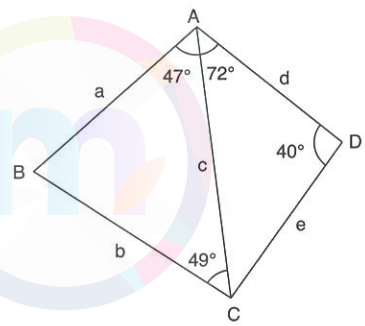
Which one of the following is correct?

A) $m(\widehat{A}) > m(\widehat{C}) > m(\widehat{B})$ B) $m(\widehat{C}) > m(\widehat{A}) > m(\widehat{B})$

C) $m(\widehat{C}) > m(\widehat{B}) > m(\widehat{A})$ D) $m(\widehat{A}) > m(\widehat{B}) > m(\widehat{C})$

E) $m(\widehat{B}) > m(\widehat{A}) > m(\widehat{C})$

4.

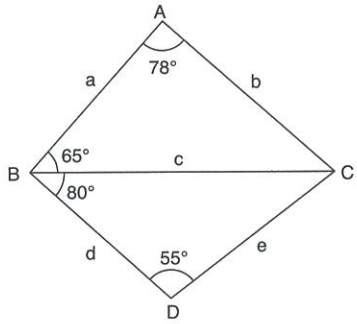


En kısa kenar hangisidir?

Which side is the shortest?

A) a B) b C) c D) d E) e

5.

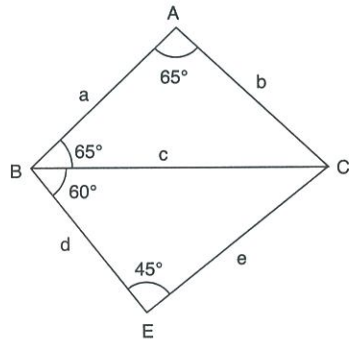


En uzun kenar hangisidir?

Which side is the longest?

A) a B) b C) c D) d E) e

6.

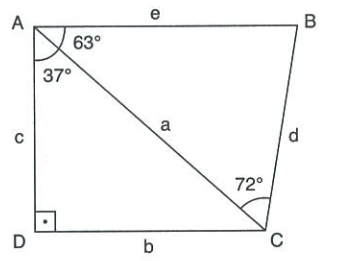


En uzun kenar hangisidir?

Which side is the longest?

A) a B) b C) c D) d E) e

7.

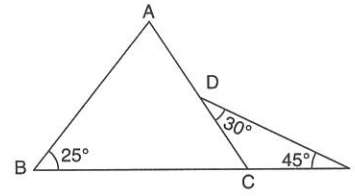


En kısa kenar hangisidir?

Which side is the shortest?

A) a B) b C) c D) d E) e

8.



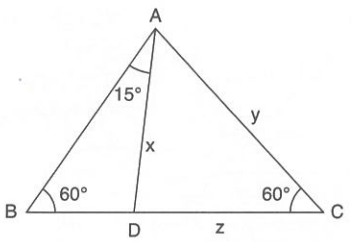
En kısa kenar hangisidir?

Which side is the shortest?

A) [AB] B) [AC] C) [BC] D) [CE] E) [DE]

PUZA YAYINLARI

9.

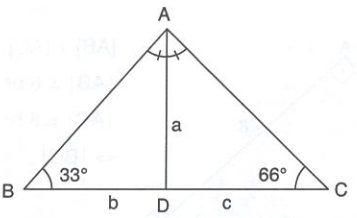


Aşağıdakilerden hangisi doğrudur?

Which one of the following is correct?

A) $x > y > z$ B) $y > x > z$ C) $z > y > x$
D) $y > z > x$ E) $z > x > y$

10.

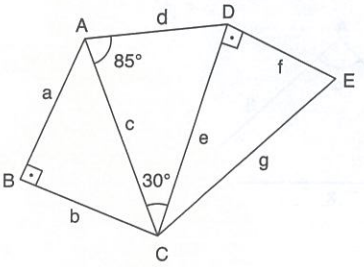


Aşağıdakilerden hangisi doğrudur?

Which one of the following is correct?

A) $a > b > c$ B) $a > c > b$ C) $b > a > c$
D) $b > c > a$ E) $c > a > b$

11.

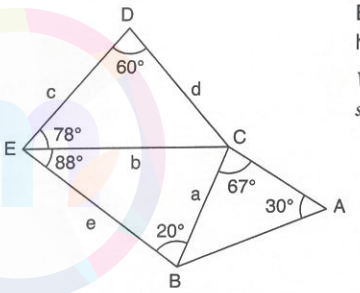


En uzun kenar hangisidir?

Which side is the longest?

A) c B) d C) e D) f E) g

12.

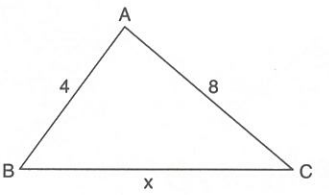


En kısa kenar hangisidir?

Which side is the shortest?

A) a B) b C) c D) d E) e

13.

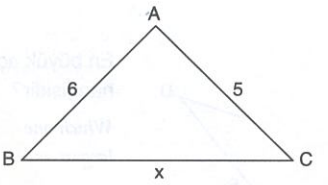


x aşağıdakilerden hangisi olabilir?

Which one of the following can be rate of x?

A) 1 B) 2 C) 4 D) 7 E) 12

14.

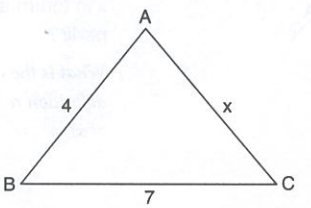


x'in tanım aralığı nedir?

What is the definition range of x?

A) $1 < x < 12$ B) $1 \le x \le 11$ C) $1 < x < 11$
D) $2 \le x \le 10$ E) $2 < x < 10$

15.

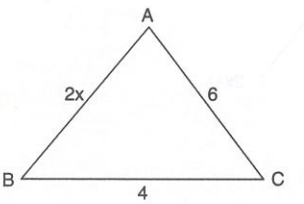


$x \in Z^+$

$\Rightarrow \max(x) + \min(x) = ?$

A) 16 B) 15 C) 14 D) 12 E) 10

16.



$x \in R$

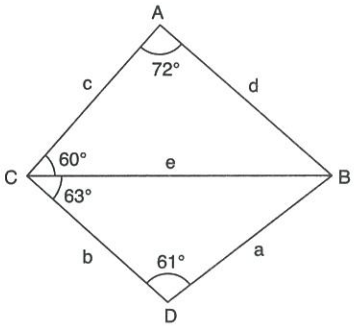
x'in tanım aralığı nedir?

What is the definition range of x?

A) $2 < x < 10$ B) $2 \le x \le 10$ C) $1 < x < 5$
D) $2 < x < 5$ E) $1 < x < 10$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.

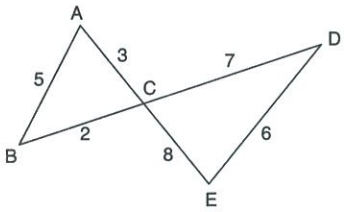


En uzun kenar hangisidir?

Which side is the longest?

A) a B) b C) c D) d E) e

2.

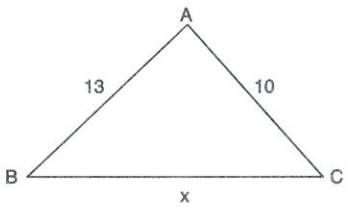


En büyük açı hangisidir?

Which one is the largest angle?

A) $m(\widehat{A})$ B) $m(\widehat{B})$ C) $m(\widehat{C})$ D) $m(\widehat{D})$ E) $m(\widehat{E})$

3.

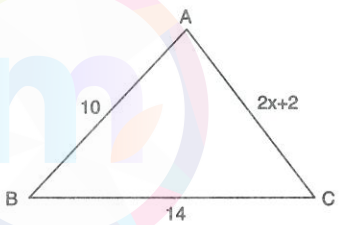


x'in tanım aralığı nedir?

What is the definition range of x?

A) $10 < x < 13$ B) $3 < x < 13$ C) $3 < x < 23$
D) $10 < x < 23$ E) $4 < x < 22$

4.

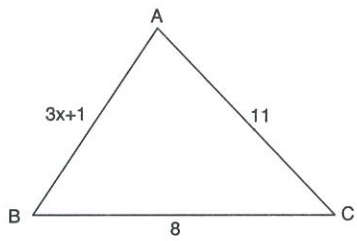


x'in tanım aralığı nedir?

What is the definition range of x?

A) $5 < x < 7$ B) $3 < x < 5$ C) $4 < x < 24$
D) $2 < x < 12$ E) $1 < x < 11$

5.

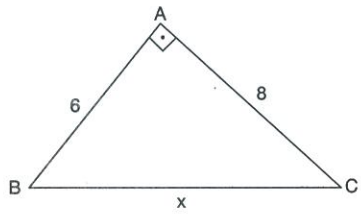


x'in tanım aralığı nedir?

What is the definition range of x?

A) $1 < x < \frac{20}{3}$ B) $\frac{2}{3} < x < 6$ C) $1 < x < 6$
D) $1 < x < \frac{19}{3}$ E) $3 < x < 19$

6.



$[AB] \perp [AC]$

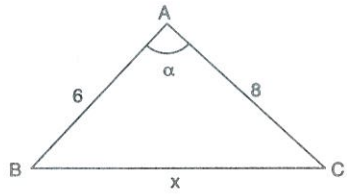
$|AB| = 6$ br

$|AC| = 8$ br

$\Rightarrow |BC| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

7.



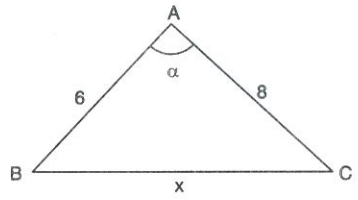
$\alpha > 90°$

x'in tanım aralığı nedir?

What is the definition range of x?

A) $2 < x < 10$ B) $6 < x < 8$ C) $6 < x < 14$
D) $10 < x < 14$ E) $2 < x < 14$

8.



$\alpha < 90°$

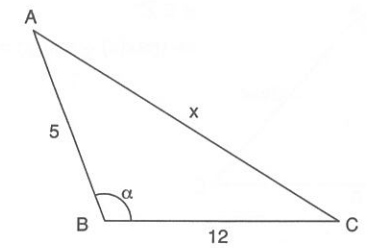
x'in tanım aralığı nedir?

What is the definition range of x?

A) $2 < x < 10$ B) $6 < x < 8$ C) $6 < x < 14$
D) $10 < x < 14$ E) $2 < x < 14$

PUZA YAYINLARI

9.



$\alpha > 90°$

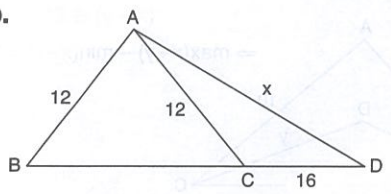
x'in tanım aralığı nedir?

What is the definition range of x?

A) $5 < x < 7$ B) $7 < x < 12$ C) $12 < x < 13$

D) $13 < x < 17$ E) $7 < x < 17$

10.



$x \in Z$

$|AB| = 12$ br

$|AC| = 12$ br

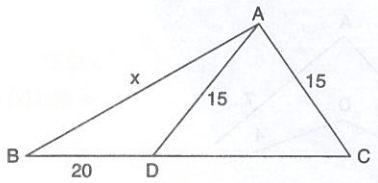
$|CD| = 16$ br

$|AD| = x$

$\Rightarrow \min(x) = ?$

A) 4 B) 12 C) 16 D) 20 E) 21

11.



$x \in Z$

$|AD| = 15$ br

$|AC| = 15$ br

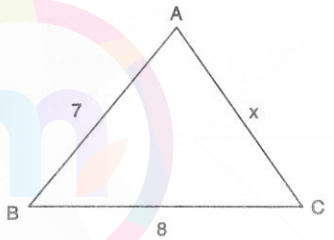
$|BD| = 20$ br

$|AB| = x$

$\Rightarrow \min(x) = ?$

A) 5 B) 15 C) 20 D) 25 E) 26

12.



$m(\widehat{B}) > m(\widehat{C})$

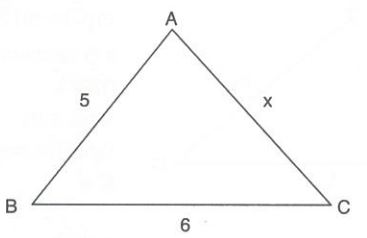
x'in tanım aralığı nedir?

What is the definition range of x?

A) $1 < x < 7$ B) $1 < x < 8$ C) $7 < x < 15$

D) $8 < x < 15$ E) $1 < x < 15$

13.



$m(\widehat{A}) > m(\widehat{B})$

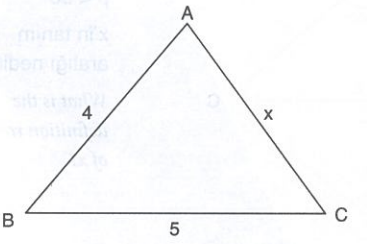
x'in tanım aralığı nedir?

What is the definition range of x?

A) $1 < x < 5$ B) $1 < x < 6$ C) $5 < x < 11$

D) $6 < x < 11$ E) $1 < x < 11$

14.



$m(\widehat{A}) > m(\widehat{B})$

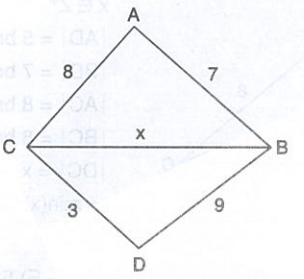
x'in tanım aralığı nedir?

What is the definition range of x?

A) $4 < x < 9$ B) $5 \leq x \leq 9$ C) $4 < x < 5$

D) $1 < x < 5$ E) $1 < x < 9$

15.



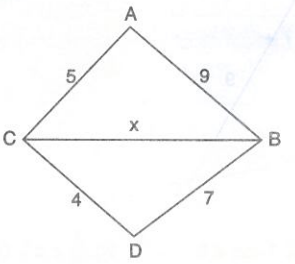
x'in tanım aralığı nedir?

What is the definition range of x?

A) $1 < x < 7$ B) $1 < x < 12$ C) $1 < x < 15$

D) $6 < x < 12$ E) $6 < x < 11$

16.



x'in tanım aralığı nedir?

What is the definition range of x?

A) $9 < x < 11$ B) $7 < x < 11$ C) $3 < x < 11$

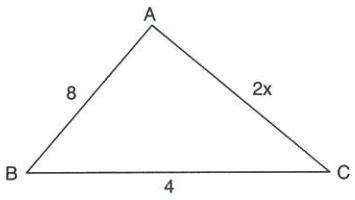
D) $5 < x < 14$ E) $4 < x < 11$

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

1.



$m(\widehat{C}) > m(\widehat{B})$

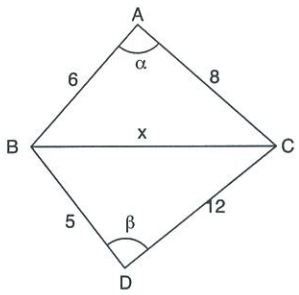
x'in tanım aralığı nedir?

What is the definition range of x?

A) $2 < x < 4$ B) $2 < x < 8$ C) $4 < x < 6$

D) $4 < x < 8$ E) $6 < x < 8$

2.



$\alpha > 90°$

$\beta < 90°$

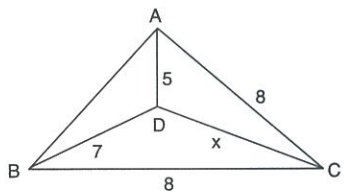
x'in tanım aralığı nedir?

What is the definition range of x?

A) $7 < x < 13$ B) $10 < x < 13$ C) $10 < x < 17$

D) $8 < x < 12$ E) $13 < x < 17$

3.



$x \in Z^+$

$|AD| = 5$ br

$|BD| = 7$ br

$|AC| = 8$ br

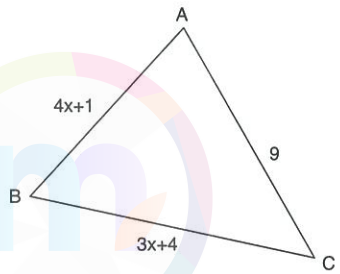
$|BC| = 8$ br

$|DC| = x$

$\Rightarrow \min(x) = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

4.



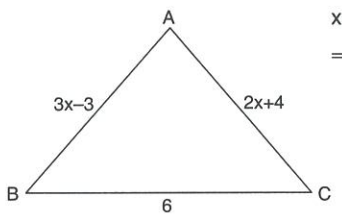
x'in tanım aralığı nedir?

What is the definition range of x?

A) $2 < x < 9$ B) $1 < x < 9$ C) $\frac{4}{7} < x < 9$

D) $\frac{4}{7} < x < 12$ E) $\frac{2}{7} < x < 12$

5.

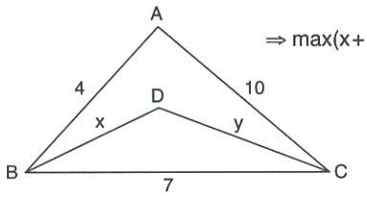


$x \in Z^+$

$\Rightarrow \max(x) + \min(x) = ?$

A) 12 B) 13 C) 14 D) 15 E) 16

6.

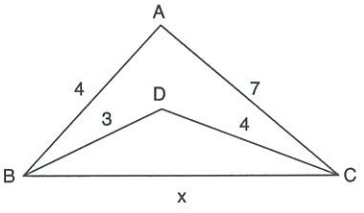


$(x + y) \in Z^+$

$\Rightarrow \max(x+y) - \min(x+y) = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

7.

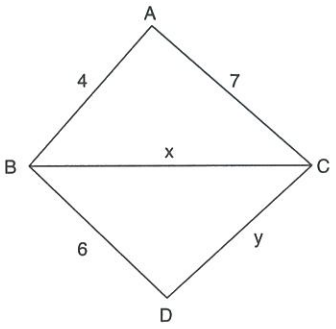


$x \in Z^+$

$\Rightarrow \max(x) = ?$

A) 10 B) 9 C) 8 D) 7 E) 6

8.



$x, y \in N$

max(x) için

for max(x)

$\Rightarrow \max(y) = ?$

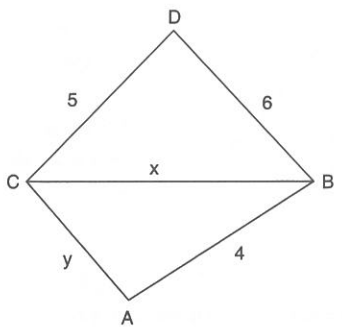
A) 17 B) 16 C) 15 D) 14 E) 13

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

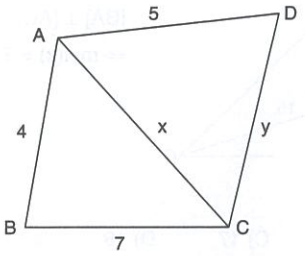
9.



x, y ∈ N
max(x) için
for max(x)
⇒ min(y) = ?

A) 6 B) 7 C) 8 D) 9 E) 10

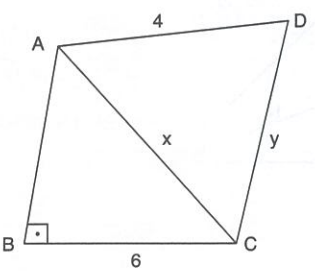
10.



x, y ∈ N
min(x) için
for min(x)
⇒ max(y) = ?

A) 9 B) 8 C) 7 D) 6 E) 5

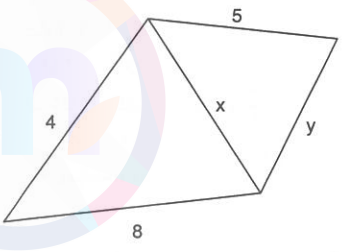
11.



x, y ∈ Z⁺
min(x) için
for min(x)
⇒ max(y) = ?

A) 7 B) 8 C) 9 D) 10 E) 11

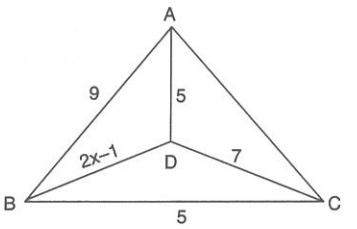
12.



x ∈ R, y ∈ N
max(x) için
for max(x)
⇒ max(y) = ?

A) 16 B) 15 C) 14 D) 12 E) 11

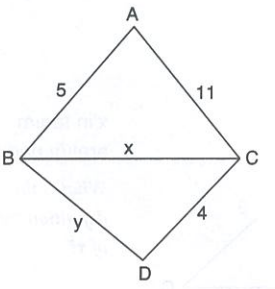
13.



x ∈ Z⁺
⇒ max(x) = ?

A) 4 B) 5 C) 6 D) 7 E) 8

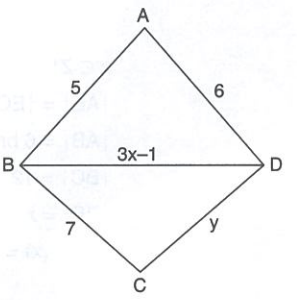
14.



x ∈ R, y ∈ N
min(x) için
for min(x)
⇒ max(y) = ?

A) 7 B) 8 C) 9 D) 10 E) 11

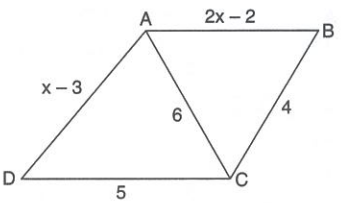
15.



x, y ∈ Z
max(x) için
for max(x)
⇒ max(y) = ?

A) 16 B) 15 C) 14 D) 13 E) 12

16.

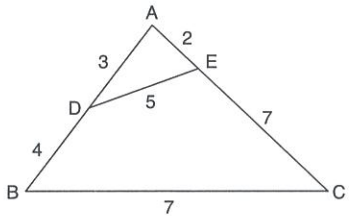


x'in tanım aralığı nedir?
What is the definition range of x?

A) 2 < x < 6 B) 4 < x < 6 C) 4 < x < 10
D) 4 < x < 9 E) 2 < x < 10

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.

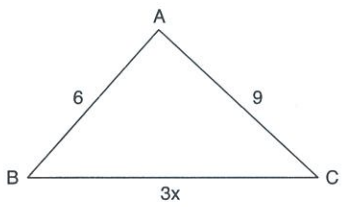


En büyük açı hangisidir?

Which one is the largest angle?

A) $m(\widehat{A})$ B) $m(\widehat{B})$ C) $m(\widehat{C})$ D) $m(\widehat{D})$ E) $m(\widehat{E})$

2.

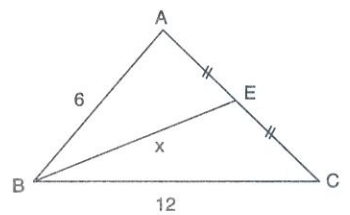


x'in tanım aralığı nedir?

What is the definition range of x?

A) $1 < x < 3$ B) $2 < x < 3$ C) $1 < x < 5$
D) $2 < x < 5$ E) $3 < x < 5$

3.



$x \in Z^+$

$|AE| = |EC|$

$|AB| = 6$ br

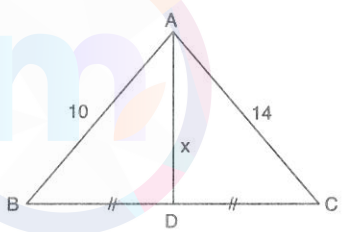
$|BC| = 12$ br

$|BE| = x$

$\Rightarrow \min(x) = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

4.



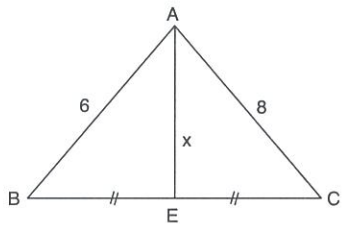
$x \in Z^+$

$\Rightarrow \max(x) = ?$

A) 6 B) 11 C) 12 D) 13 E) 23

PUZA YAYINLARI

5.



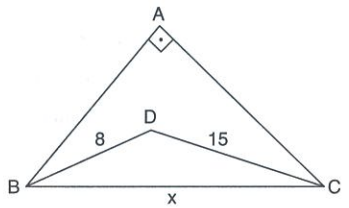
$m(\widehat{A}) > 90°$

x'in tanım aralığı nedir?

What is the definition range of x?

A) $1 < x < 5$ B) $1 < x < 7$ C) $2 < x < 10$
D) $5 < x < 7$ E) $10 < x < 14$

6.



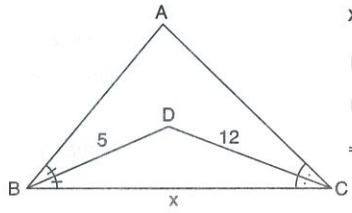
$x \in Z^+$

$[BA] \perp [AC]$

$\Rightarrow \min(x) = ?$

A) 8 B) 9 C) 17 D) 18 E) 19

7.



$x \in Z$

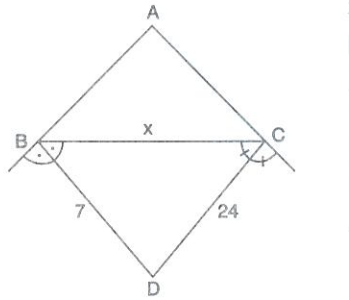
$m(\widehat{ABD}) = m(\widehat{DBC})$

$m(\widehat{ACD}) = m(\widehat{DCB})$

$\Rightarrow \min(x) + \max(x) = ?$

A) 30 B) 29 C) 27 D) 26 E) 25

8.



$x \in Z$

$[BD]$, $[DC]$ açıortay

$[BD]$, $[DC]$ bisector

$|BD| = 7$ br

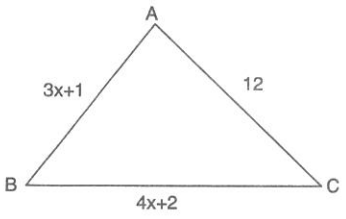
$|DC| = 24$ br

$|BC| = x$

$\Rightarrow \max(x) = ?$

A) 22 B) 23 C) 24 D) 25 E) 26

9.



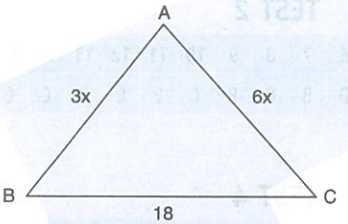
$x \in Z^+$

Üçgenin çevresinin maksimum değeri kaç birimdir?

What is the maximum rate of perimeter of triangle?

A) 83 B) 84 C) 85 D) 86 E) 87

10.



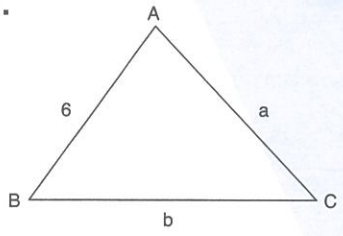
$x \in Z^+$

Üçgenin çevresinin maksimum değeri kaç birimdir?

What is the maximum rate of perimeter of triangle?

A) 67 B) 66 C) 65 D) 64 E) 63

11.



$a, b \in Z^+$

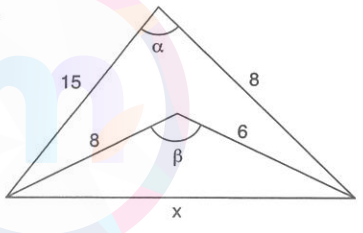
$m(\widehat{A}) < m(\widehat{C}) < m(\widehat{B})$

Üçgenin çevresinin maksimum değeri kaç birimdir?

What is the maximum rate of perimeter of triangle?

A) 19 B) 20 C) 21 D) 22 E) 23

12.



$\alpha < 90° < \beta$

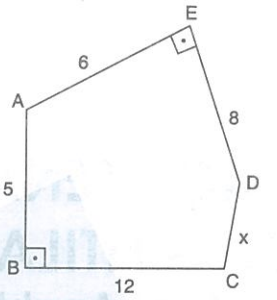
x'in tanım aralığı nedir?

What is the definition range of x?

A) $8 < x < 15$ B) $10 < x < 15$ C) $10 < x < 17$

D) $10 < x < 14$ E) $17 < x < 23$

13.



$x \in Z^+$

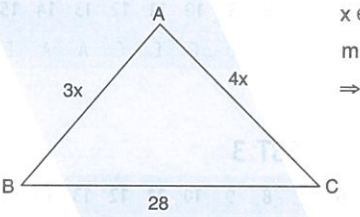
$[AB] \perp [BC]$

$[AE] \perp [ED]$

$\Rightarrow \min(x) = ?$

A) 5 B) 4 C) 3 D) 2 E) 1

14.



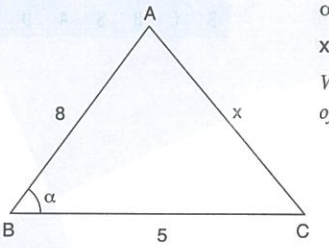
$x \in Z^+$

$m(\widehat{A}) > m(\widehat{B})$

$\Rightarrow \max(x) - \min(x) = ?$

A) 1 B) 2 C) 3 D) 4 E) 7

15.



$\alpha > 60°$

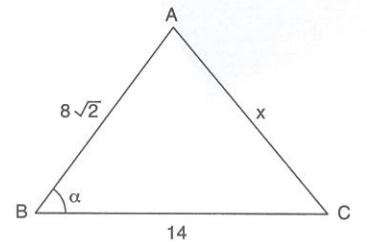
x'in tanım aralığı nedir?

What is the definition range of x?

A) $3 < x < 7$ B) $6 < x < 13$ C) $3 < x < 13$

D) $7 < x < 13$ E) $7 < x < 12$

16.



$x \in Z^+$

$\alpha < 45°$

$\Rightarrow \max(x) = ?$

A) 7 B) 8 C) 9 D) 10 E) 11

PUZA YAYINLARI

AÇI-KENAR BAĞINTILARI
Yanıt Anahtarı

ANGLE-SIDE RELATIONSHIPS
Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	C	D	B	A	B	E	D	C	E	C	A	A	E	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	D	B	E	D	B	D	B	C	E	C	D	C	C	C

TEST 3

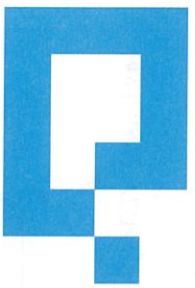
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	C	E	B	C	D	A	D	E	E	C	B	D	D	E

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	B	D	D	C	B	E	C	B	B	D	A	C	D	C	B

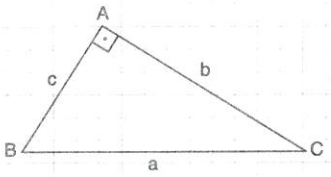
TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	B	B	A	D	A	C	C	E	C	D	B	A	D	C



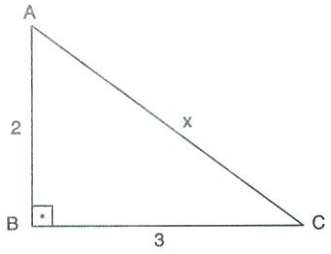
DİK ÜÇGEN
RIGHT TRIANGLES

ÖZELLİK|Property 1



$\Rightarrow a^2 = b^2 + c^2$

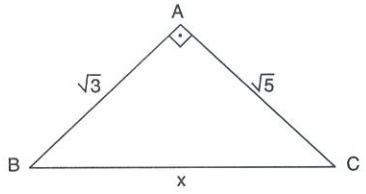
1.



$\Rightarrow x = ?$

$\sqrt{13}$

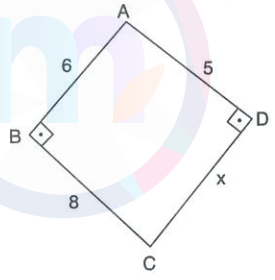
2.



$\Rightarrow x = ?$

$2\sqrt{2}$

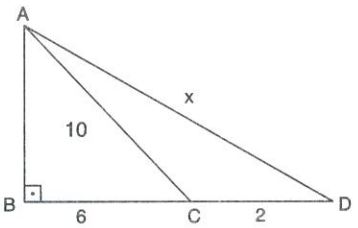
3.



$\Rightarrow x = ?$

$5\sqrt{3}$

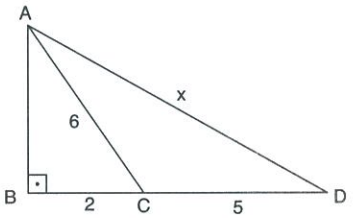
4.



$\Rightarrow x = ?$

$8\sqrt{2}$

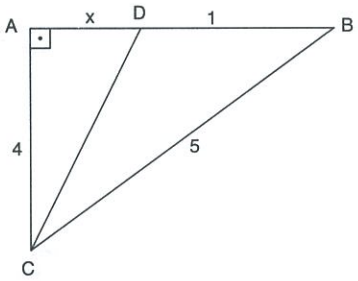
5.



$\Rightarrow x = ?$

9

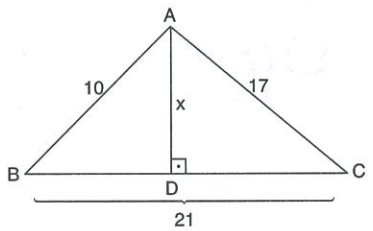
6.



$\Rightarrow x = ?$

2

7.

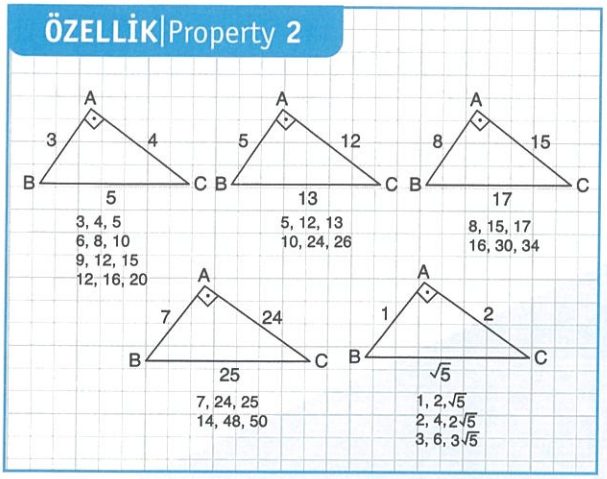


$\Rightarrow x = ?$

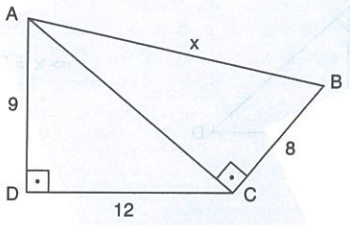
8

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 2



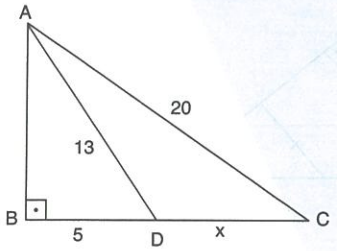
1.



⇒ x = ?

17

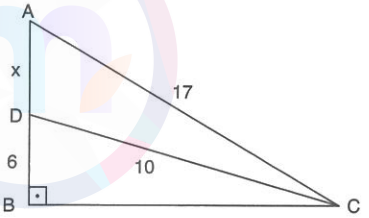
2.



⇒ x = ?

11

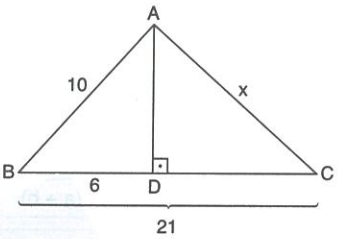
3.



⇒ x = ?

9

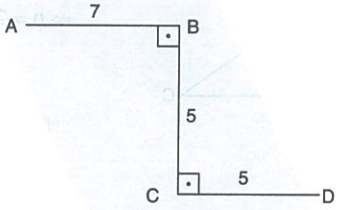
4.



⇒ x = ?

17

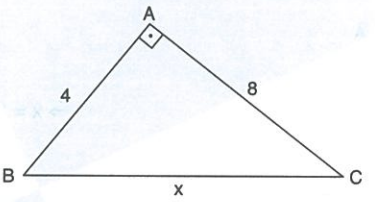
5.



⇒ |AD| = ?

13

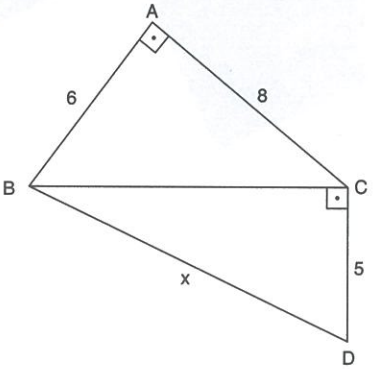
6.



⇒ x = ?

$4\sqrt{5}$

7.

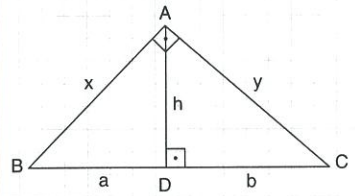


⇒ x = ?

$5\sqrt{5}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 3



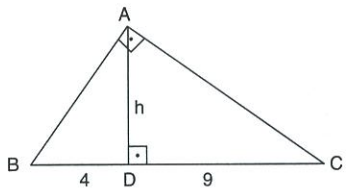
$\Rightarrow h^2 = a \cdot b$

$\Rightarrow x^2 = a(a + b)$

$\Rightarrow y^2 = b(a + b)$

$\Rightarrow x \cdot y = (a + b)h$

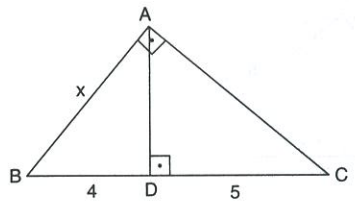
1.



$\Rightarrow h = ?$

6

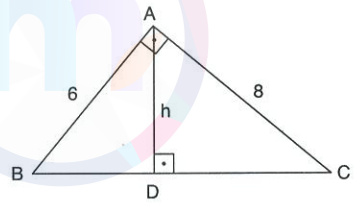
2.



$\Rightarrow x = ?$

6

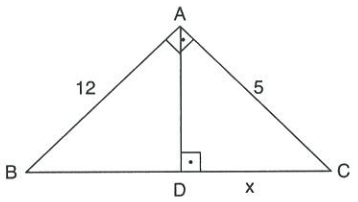
3.



$\Rightarrow h = ?$

4,8

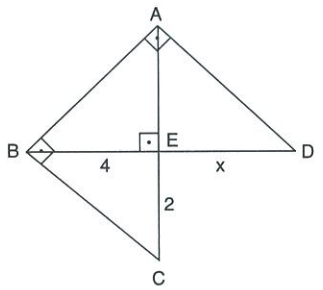
4.



$\Rightarrow x = ?$

$\frac{25}{13}$

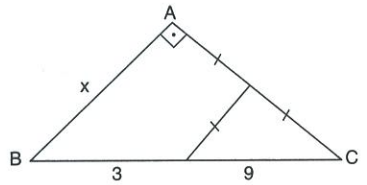
5.



$\Rightarrow x = ?$

16

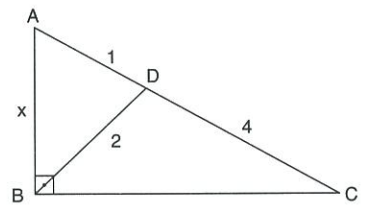
6.



$\Rightarrow x = ?$

6

7.

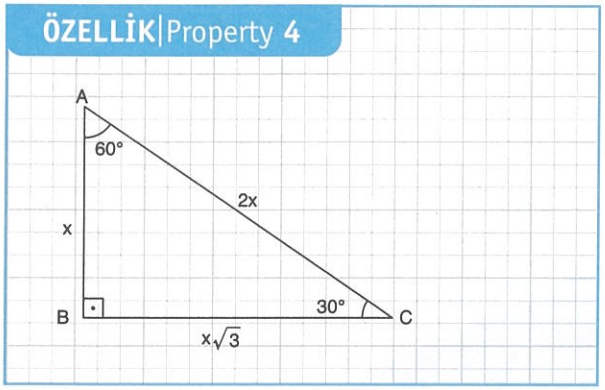


$\Rightarrow x = ?$

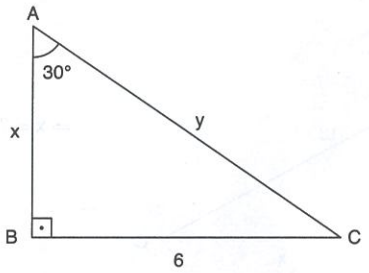
$\sqrt{5}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 4



1.

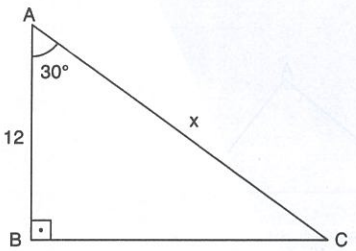


⇒ x = ?

⇒ y = ?

6√3 , 12

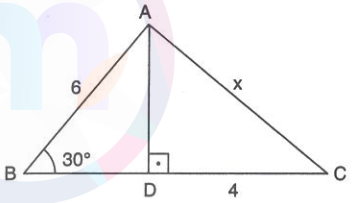
2.



⇒ x = ?

8√3

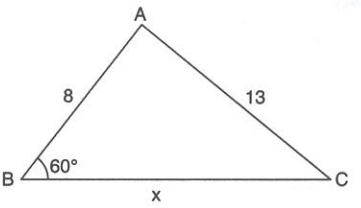
3.



⇒ x = ?

5

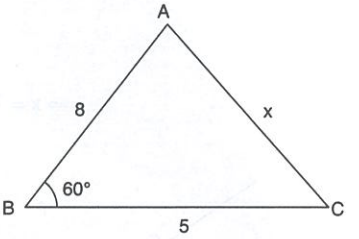
4.



⇒ x = ?

15

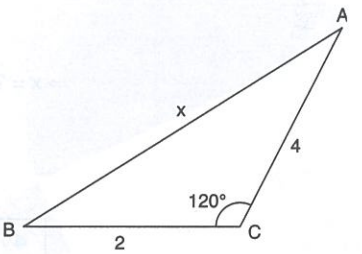
5.



⇒ x = ?

7

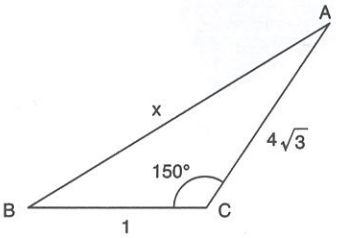
6.



⇒ x = ?

2√7

7.

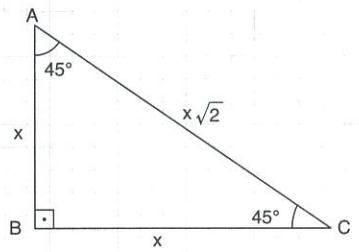


⇒ x = ?

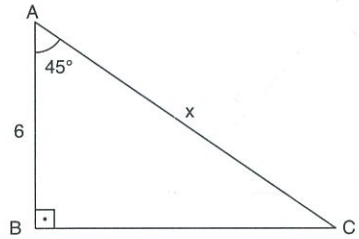
√61

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 5



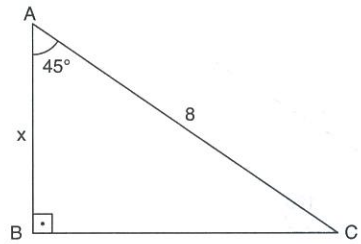
1.



⇒ x = ?

6√2

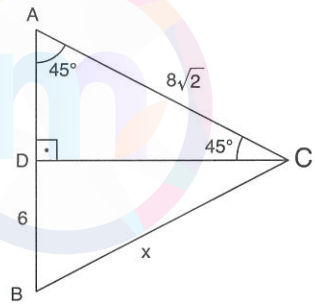
2.



⇒ x = ?

4√2

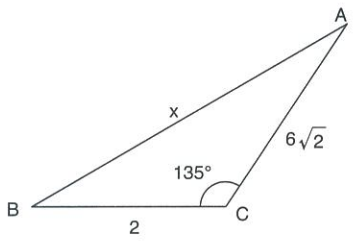
3.



⇒ x = ?

10

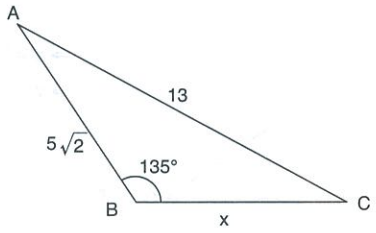
4.



⇒ x = ?

10

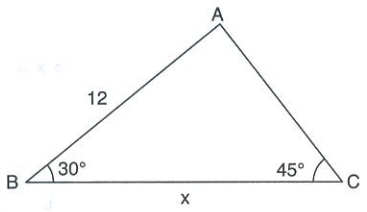
5.



⇒ x = ?

7

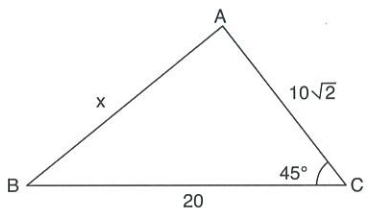
6.



⇒ x = ?

6√3 + 6

7.



⇒ x = ?

10√2

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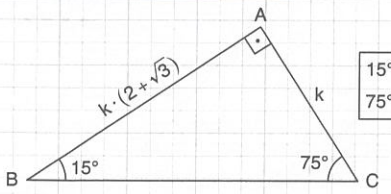
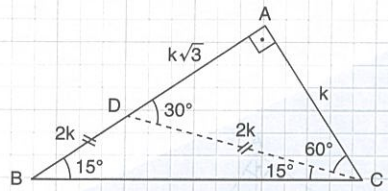
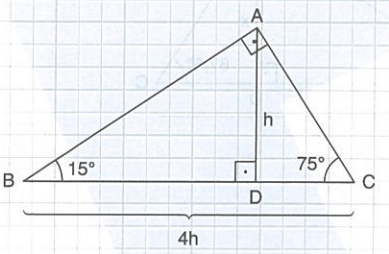
PUZA YAYINLARI

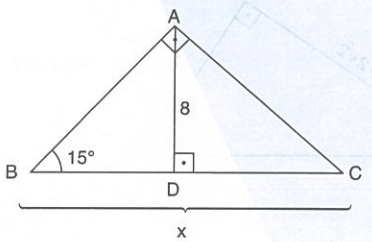
ÖZELLİK | Property 6







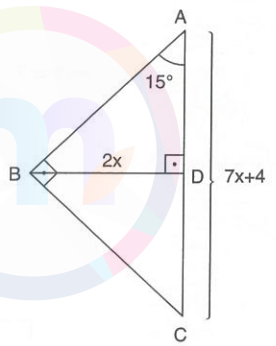
1.



⇒ x = ?

32

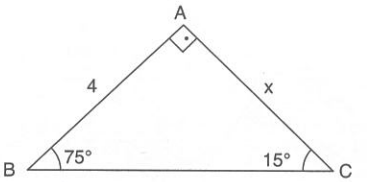
2.



⇒ x = ?

4

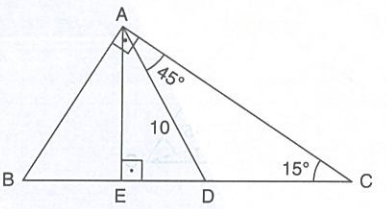
3.



⇒ x = ?

$8 + 4\sqrt{3}$

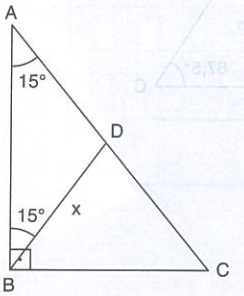
4.



⇒ |BC| = ?

$20\sqrt{3}$

5.

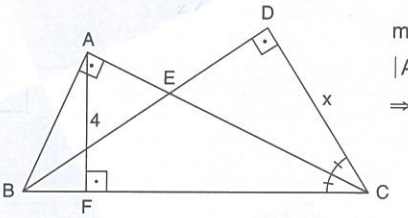


|AC| = 12 br

⇒ x = ?

6

6.



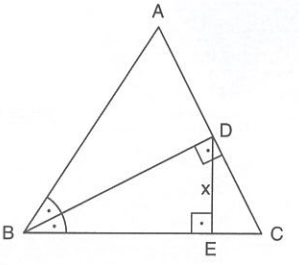
$m(\widehat{BCD}) = 30°$

|AF| = 4 br

⇒ x = ?

$8\sqrt{3}$

7.



$m(\widehat{DBC}) = 15°$

[BD] bisector

|AB| = 6 br

⇒ x = ?

$\frac{3}{2}$

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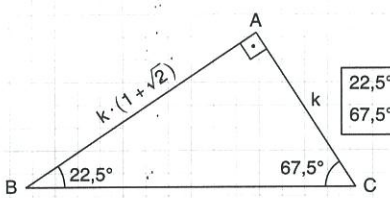
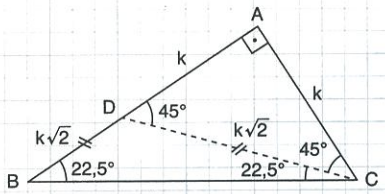
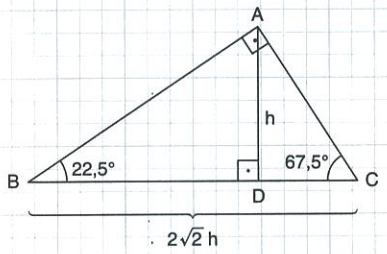
ÖZELLİK|Property 7



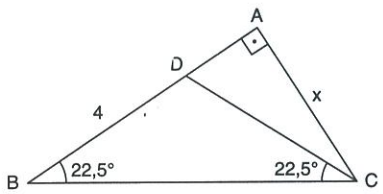
22,5° → k

67,5° → k·(1+√2)





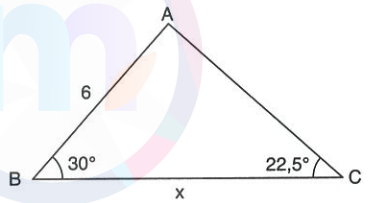
1.



⇒ x = ?

2√2

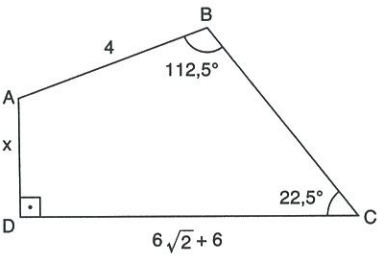
2.



⇒ x = ?

3 + 3√2 + 3√3

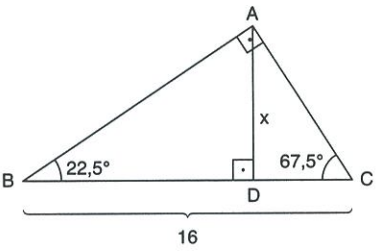
3.



⇒ x = ?

2

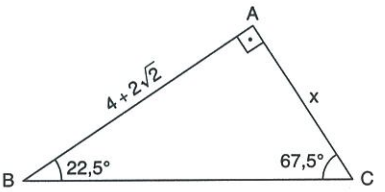
4.



⇒ x = ?

4√2

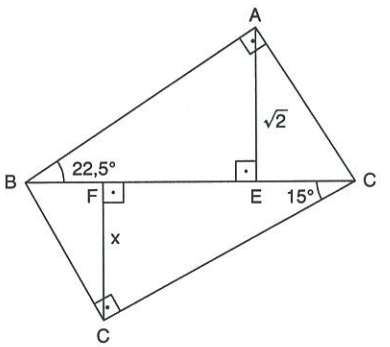
5.



⇒ x = ?

2√2

6.



⇒ x = ?

1

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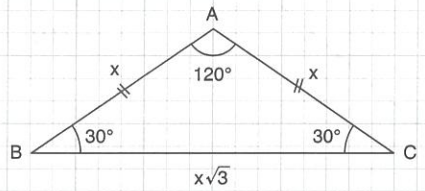
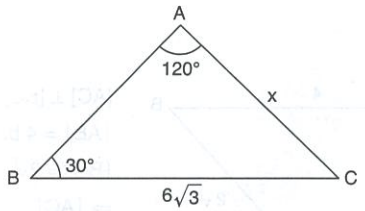
ÖZELLİK|Property 8



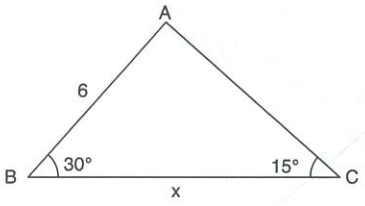
1.



⇒ x = ?

6

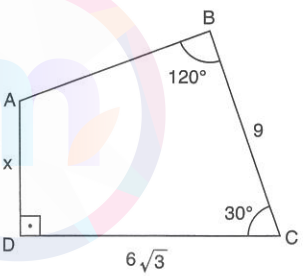
2.



⇒ x = ?

6 + 6√3

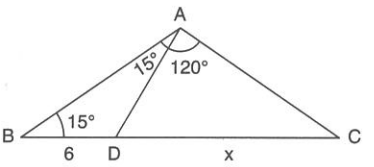
3.



⇒ x = ?

3

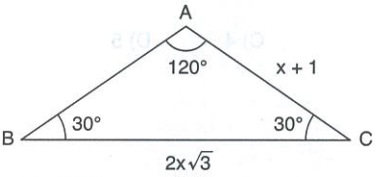
4.



⇒ x = ?

6√3

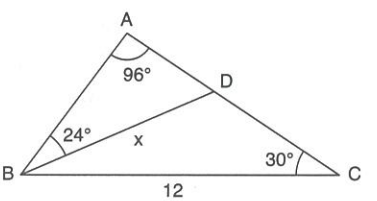
5.



⇒ Ç(ABC) = ?

4 + 2√3

6.



⇒ x = ?

4√3

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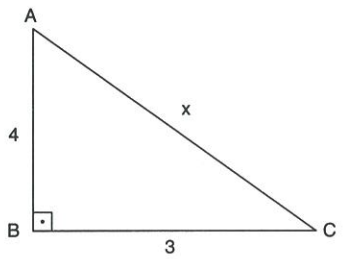
PUZA YAYINLARI
PUZA YAYINLARI

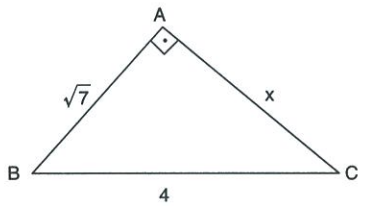
1.



[AB] ⊥ [BC]
|AB| = 4 br
|BC| = 3 br
⇒ |AC| = x = ?

A) 25 B) 7 C) 5 D) $2\sqrt{7}$ E) $2\sqrt{2}$

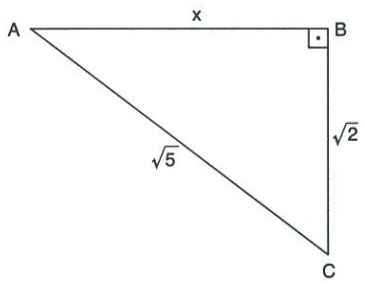
2.



[BA] ⊥ [AC]
|AB| = $\sqrt{7}$ br
|BC| = 4 br
⇒ |AC| = x = ?

A) $\sqrt{5}$ B) 3 C) 4 D) 5 E) $\sqrt{23}$

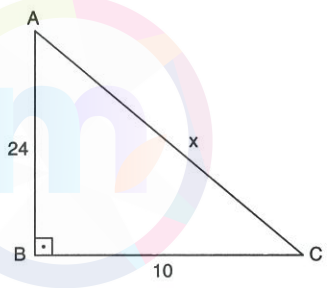
3.



[AB] ⊥ [BC]
|AC| = $\sqrt{5}$ br
|BC| = $\sqrt{2}$ br
⇒ |AB| = x = ?

A) 1 B) $\sqrt{2}$ C) $\sqrt{3}$ D) 2 E) $\sqrt{5}$

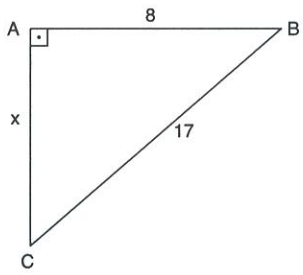
4.



[AB] ⊥ [BC]
|AB| = 24 br
|BC| = 10 br
⇒ |AC| = x = ?

A) 10 B) 20 C) 24 D) 25 E) 26

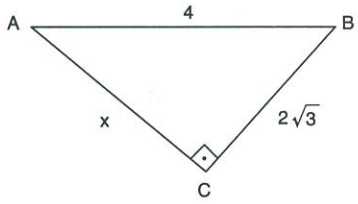
5.



[BA] ⊥ [AC]
|AB| = 8 br
|BC| = 17 br
⇒ |AC| = x = ?

A) 15 B) 13 C) 10 D) 8 E) 6

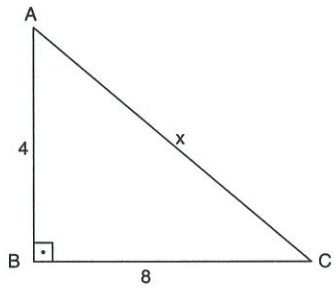
6.



[AC] ⊥ [BC]
|AB| = 4 br
|BC| = $2\sqrt{3}$ br
⇒ |AC| = x = ?

A) 1 B) 2 C) $\sqrt{3}$ D) $2\sqrt{3}$ E) $2\sqrt{7}$

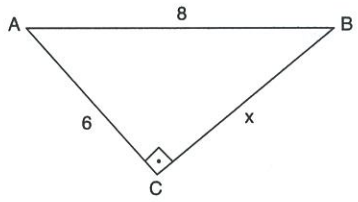
7.



[AB] ⊥ [BC]
|AB| = 4 br
|BC| = 8 br
⇒ |AC| = x = ?

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) $4\sqrt{5}$ E) 8

8.



[AC] ⊥ [BC]
|AB| = 8 br
|AC| = 6 br
⇒ |BC| = x = ?

A) 10 B) $2\sqrt{7}$ C) $\sqrt{7}$ D) 2 E) 1

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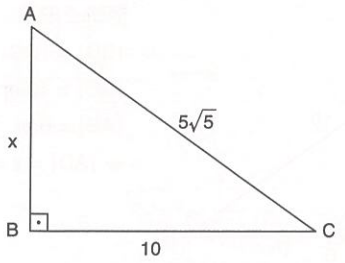
PUZA YAYINLARI

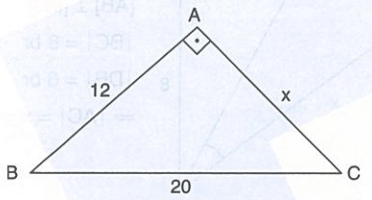
9.



$[AB] \perp [BC]$
$|BC| = 10$ br
$|AC| = 5\sqrt{5}$ br
$\Rightarrow |AB| = x = ?$

A) 5 B) $5\sqrt{2}$ C) 10 D) $10\sqrt{2}$ E) $10\sqrt{5}$

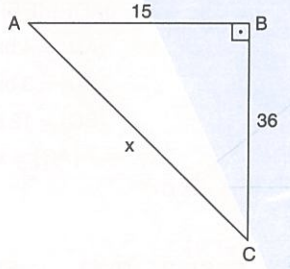
10.



$[BA] \perp [AC]$
$|AB| = 12$ br
$|BC| = 20$ br
$\Rightarrow |AC| = x = ?$

A) 12 B) 15 C) 16 D) 18 E) 20

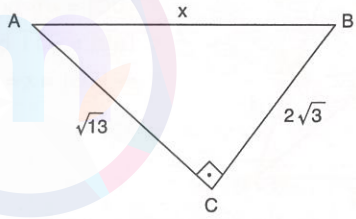
11.



$[AB] \perp [BC]$
$|AB| = 15$ br
$|BC| = 36$ br
$\Rightarrow |AC| = x = ?$

A) 35 B) 36 C) 37 D) 38 E) 39

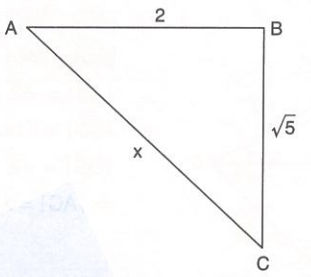
12.



$[AC] \perp [BC]$
$|AC| = \sqrt{13}$ br
$|BC| = 2\sqrt{3}$ br
$\Rightarrow |AB| = x = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

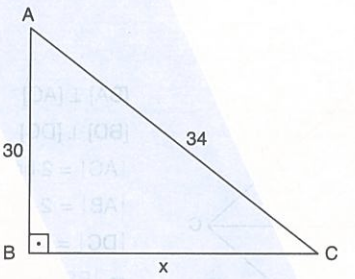
13.



$m(\widehat{BAC}) + m(\widehat{BCA}) = 90°$
$|AB| = 2$ br
$|BC| = \sqrt{5}$ br
$\Rightarrow |AC| = x = ?$

A) 2 B) 3 C) 5 D) $\sqrt{7}$ E) $\sqrt{29}$

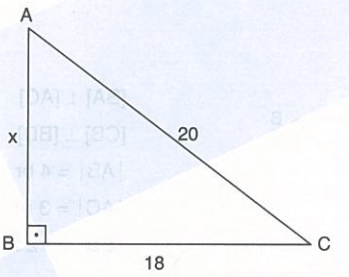
14.



$[AB] \perp [BC]$
$|AB| = 30$ br
$|AC| = 34$ br
$\Rightarrow |BC| = x = ?$

A) 2 B) 4 C) 8 D) 10 E) 16

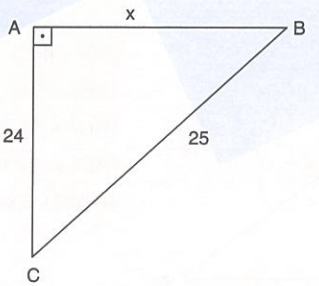
15.



$[AB] \perp [BC]$
$|AC| = 20$ br
$|BC| = 18$ br
$\Rightarrow |AB| = x = ?$

A) 2 B) $\sqrt{19}$ C) $2\sqrt{19}$ D) 18 E) 20

16.



$[BA] \perp [AC]$
$|AC| = 24$ br
$|BC| = 25$ br
$\Rightarrow |AB| = x = ?$

A) 1 B) 2 C) 6 D) 7 E) $\sqrt{7}$

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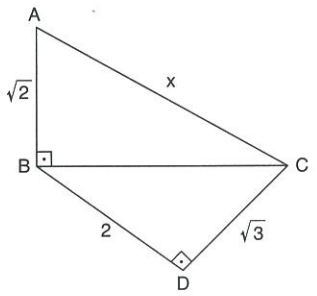
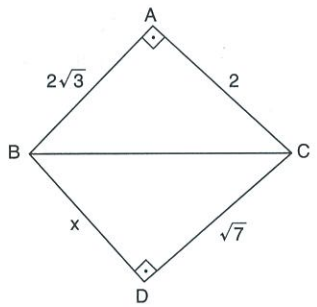
1.



[AB] ⊥ [BC]
[BD] ⊥ [DC]
|AB| = $\sqrt{2}$ br
|BD| = 2 br
|DC| = $\sqrt{3}$ br
⇒ |AC| = x = ?

A) 1 B) $\sqrt{2}$ C) 2 D) $\sqrt{3}$ E) 3

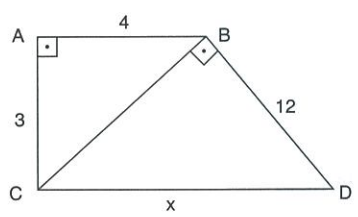
2.



[BA] ⊥ [AC]
[BD] ⊥ [DC]
|AC| = 2 br
|AB| = $2\sqrt{3}$ br
|DC| = $\sqrt{7}$ br
⇒ |BD| = x = ?

A) $\sqrt{3}$ B) $\sqrt{5}$ C) 3 D) 4 E) $\sqrt{10}$

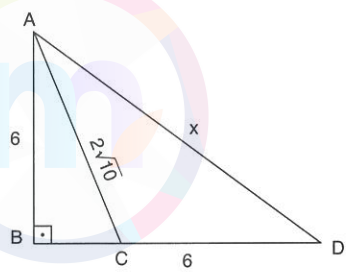
3.



[BA] ⊥ [AC]
[CB] ⊥ [BD]
|AB| = 4 br
|AC| = 3 br
|BD| = 12 br
⇒ |CD| = x = ?

A) 15 B) 13 C) 12 D) 5 E) 1

4.



[AB] ⊥ [BC]
|AB| = 6 br
|CD| = 6 br
|AC| = $2\sqrt{10}$ br
⇒ |AD| = x = ?

A) 10 B) $6\sqrt{3}$ C) $6\sqrt{2}$ D) 8 E) 6

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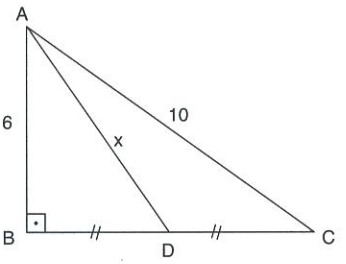
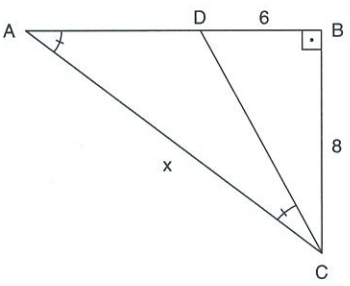
5.



[AB] ⊥ [BC]
|BD| = |DC|
|AC| = 10 br
|AB| = 6 br
⇒ |AD| = x = ?

A) 4 B) 5 C) $2\sqrt{10}$ D) $2\sqrt{13}$ E) 8

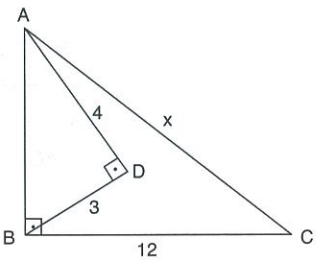
6.



$m(\widehat{BAC}) = m(\widehat{DCA})$
[AB] ⊥ [BC]
|BC| = 8 br
|DB| = 6 br
⇒ |AC| = x = ?

A) 10 B) 12 C) 16 D) $8\sqrt{5}$ E) $16\sqrt{5}$

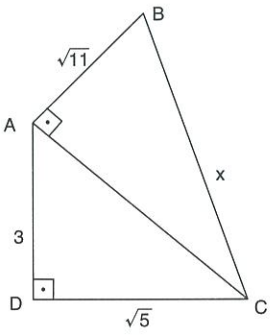
7.



[AB] ⊥ [BC]
[AD] ⊥ [DB]
|AD| = 4 br
|BD| = 3 br
|BC| = 12 br
⇒ |AC| = x = ?

A) 5 B) $5\sqrt{2}$ C) $12\sqrt{2}$ D) 13 E) $13\sqrt{2}$

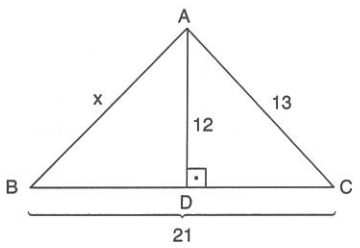
8.



[BA] ⊥ [AC]
[AD] ⊥ [DC]
|AD| = 3 br
|DC| = $\sqrt{5}$ br
|AB| = $\sqrt{11}$ br
⇒ |BC| = x = ?

A) 4 B) 5 C) $2\sqrt{7}$ D) $\sqrt{30}$ E) $4\sqrt{2}$

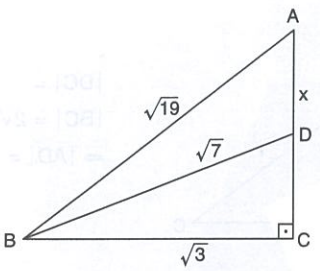
9.



$[AD] \perp [BC]$
$|AC| = 13$ br
$|AD| = 12$ br
$|BC| = 21$ br
$\Rightarrow |AB| = x = ?$

A) 15 B) 16 C) 18 D) 20 E) 25

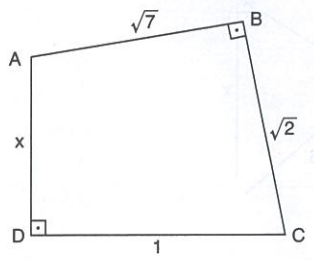
10.



$[AC] \perp [BC]$
$|AB| = \sqrt{19}$ br
$|BD| = \sqrt{7}$ br
$|BC| = \sqrt{3}$ br
$\Rightarrow |AD| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

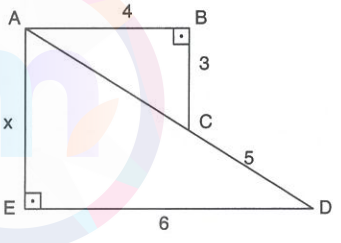
11.



$[AB] \perp [BC]$
$[AD] \perp [DC]$
$|AB| = \sqrt{7}$ br
$|BC| = \sqrt{2}$ br
$|DC| = 1$ br
$\Rightarrow |AD| = x = ?$

A) 2 B) $\sqrt{3}$ C) $2\sqrt{2}$ D) $\sqrt{10}$ E) $2\sqrt{3}$

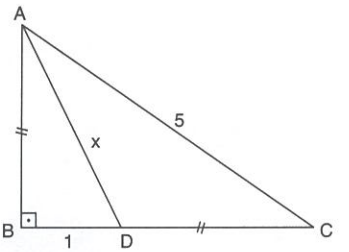
12.



$[AB] \perp [BC]$
$[AE] \perp [ED]$
$|AB| = 4$ br
$|BC| = 3$ br
$|CD| = 5$ br
$|ED| = 6$ br
$\Rightarrow |AE| = x = ?$

A) 8 B) 9 C) 10 D) 12 E) 15

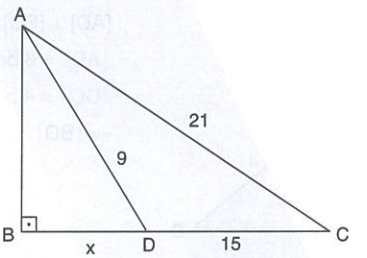
13.



$[AB] \perp [BC]$
$|AB| = |DC|$
$|BD| = 1$ br
$|AC| = 5$ br
$\Rightarrow |AD| = x = ?$

A) 3 B) $\sqrt{10}$ C) $\sqrt{11}$ D) $2\sqrt{3}$ E) $\sqrt{14}$

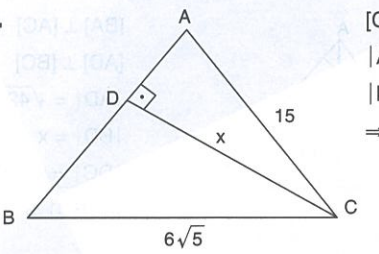
14.



$[AB] \perp [BC]$
$|AD| = 9$ br
$|DC| = 15$ br
$|AC| = 21$ br
$\Rightarrow |BD| = x = ?$

A) 4 B) $\frac{9}{2}$ C) 5 D) $\frac{11}{2}$ E) 6

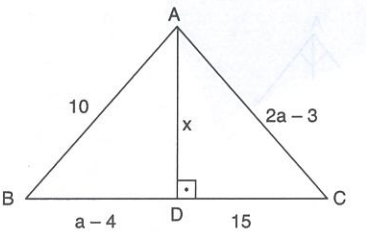
15.



$[CD] \perp [AB]$
$|AB| = |AC| = 15$ br
$|BC| = 6\sqrt{5}$ br
$\Rightarrow |DC| = x = ?$

A) 6 B) 8 C) 9 D) 10 E) 12

16.



$[AD] \perp [BC]$
$|AB| = 10$ br
$|DC| = 15$ br
$|AC| = 2a - 3$
$|BD| = a - 4$
$\Rightarrow |AD| = x = ?$

A) 6 B) $\frac{15}{2}$ C) 8 D) $\frac{17}{2}$ E) 9

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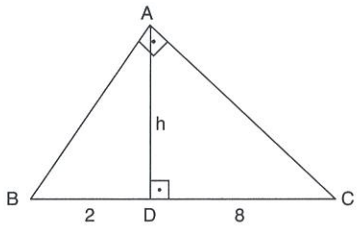
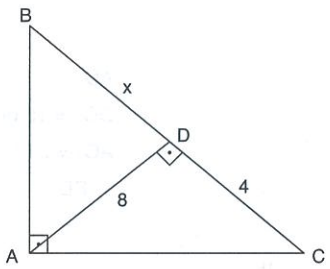
1.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
|BD| = 2 br
|DC| = 8 br
⇒ |AD| = h = ?

A) 2 B) 4 C) 5 D) 6 E) 8

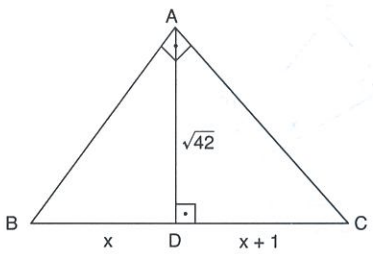
2.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
|AD| = 8 br
|DC| = 4 br
⇒ |BD| = x = ?

A) 4 B) 8 C) 12 D) 16 E) 32

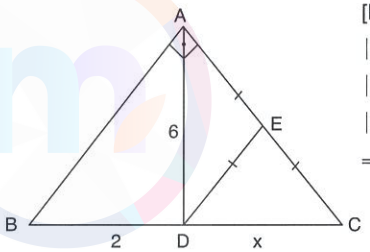
3.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
|AD| = $\sqrt{42}$ br
|BD| = x
|DC| = x + 1
⇒ |BC| = ?

A) 16 B) 14 C) 13 D) 12 E) 7

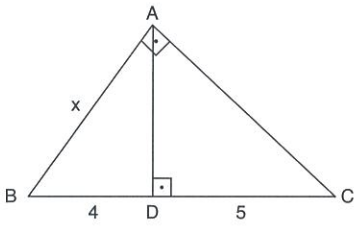
4.



[BA] ⊥ [AC]
|AE| = |EC| = |DE|
|AD| = 6 br
|BD| = 2 br
⇒ |DC| = x = ?

A) 9 B) 16 C) 18 D) 38 E) 48

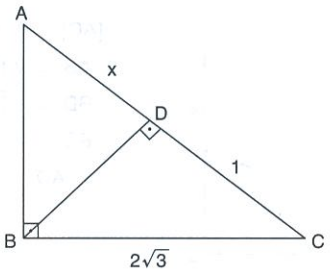
5.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
|BD| = 4 br
|DC| = 5 br
⇒ |AB| = x = ?

A) 4 B) 5 C) 6 D) 9 E) 12

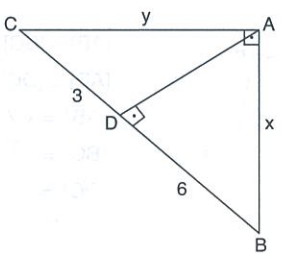
6.



[AB] ⊥ [BC]
[BD] ⊥ [AC]
|DC| = 1 br
|BC| = $2\sqrt{3}$ br
⇒ |AD| = x = ?

A) 7 B) 8 C) 9 D) 10 E) 11

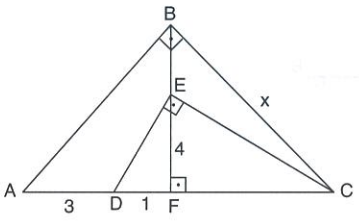
7.



[CA] ⊥ [AB]
[AD] ⊥ [BC]
|DC| = 3 br
|BD| = 6 br
|AD| = y
|AB| = x
⇒ $\frac{x}{y}$ = ?

A) 1 B) $\sqrt{2}$ C) $\sqrt{3}$ D) 2 E) 4

8.



[AB] ⊥ [BC]
[DE] ⊥ [EC]
[BF] ⊥ [AC]
|EF| = 4 br
|DF| = 1 br
|AD| = 3 br
⇒ |BC| = x = ?

A) 1 B) $\sqrt{2}$ C) $\sqrt{3}$ D) $2\sqrt{3}$ E) $8\sqrt{5}$

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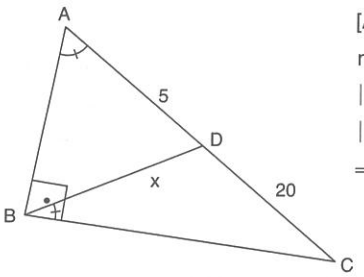
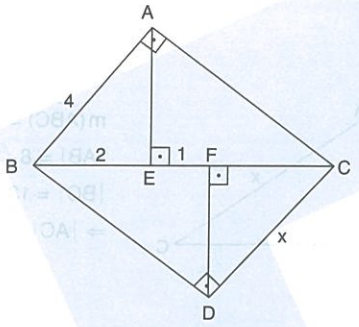
9.



$[AB] \perp [BC]$
$m(\widehat{BAC}) = m(\widehat{DBC})$
$|AD| = 5$ br
$|DC| = 20$ br
$\Rightarrow |BD| = x = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

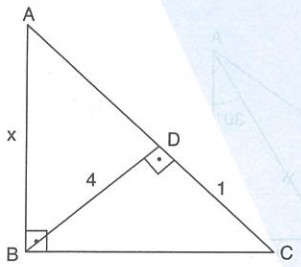
10.



$[BA] \perp [AC]$
$[AE] \perp [BC]$
$[BD] \perp [DC]$
$[DF] \perp [BC]$
$|AB| = 4$ br
$|BE| = 2$ br
$|EF| = 1$ br
$\Rightarrow |DC| = x = ?$

A) 3 B) 4 C) 5 D) $2\sqrt{5}$ E) $2\sqrt{10}$

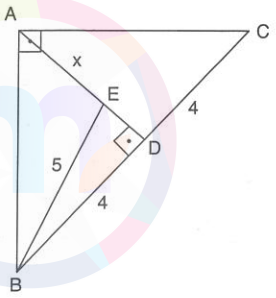
11.



$[AB] \perp [BC]$
$[BD] \perp [AC]$
$|BD| = 4$ br
$|DC| = 1$ br
$\Rightarrow |AB| = x = ?$

A) $\sqrt{17}$ B) 16 C) $2\sqrt{7}$ D) 17 E) $4\sqrt{17}$

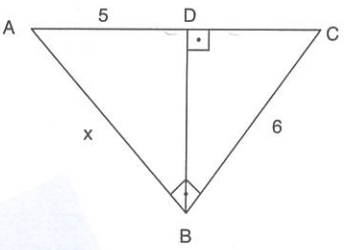
12.



$[CA] \perp [AB]$
$[AD] \perp [BC]$
$|BE| = 5$ br
$|BD| = |DC| = 4$ br
$\Rightarrow |AE| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

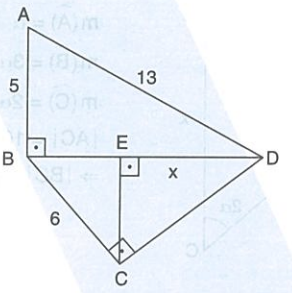
13.



$[AC] \perp [BD]$
$[AB] \perp [BC]$
$|AD| = 5$ br
$|BC| = 6$ br
$\Rightarrow |AB| = x = ?$

A) $\sqrt{3}$ B) $3\sqrt{5}$ C) $5\sqrt{3}$ D) $5\sqrt{5}$ E) 15

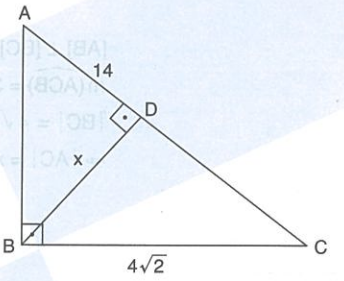
14.



$[AB] \perp [BD]$
$[BC] \perp [CD]$
$[CE] \perp [BD]$
$|AD| = 13$ br
$|AB| = 5$ br
$|BC| = 6$ br
$\Rightarrow |ED| = x = ?$

A) 9 B) 6 C) 5 D) 4 E) 2

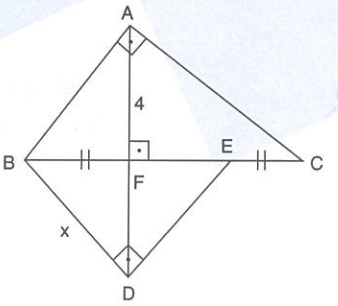
15.



$[AB] \perp [BC]$
$[BD] \perp [AC]$
$|AD| = 14$ br
$|BC| = 4\sqrt{2}$ br
$\Rightarrow |BD| = x = ?$

A) $\sqrt{5}$ B) $\sqrt{7}$ C) $2\sqrt{2}$ D) $2\sqrt{7}$ E) 6

16.



$|BF| = |EC|$
$[BA] \perp [AC]$
$[BD] \perp [DE]$
$[AF] \perp [BC]$
$|AF| = 4$ br
$\Rightarrow |BD| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

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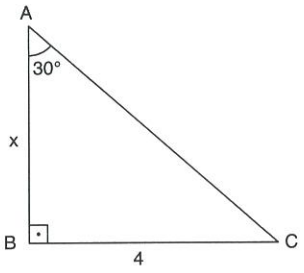
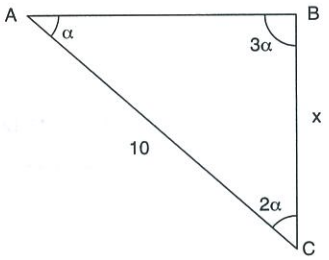
1.



$[AB] \perp [BC]$
$m(\widehat{BAC}) = 30°$
$|BC| = 4$ br
$\Rightarrow |AB| = x = ?$

A) 2 B) 4 C) $2\sqrt{3}$ D) $4\sqrt{3}$ E) 8

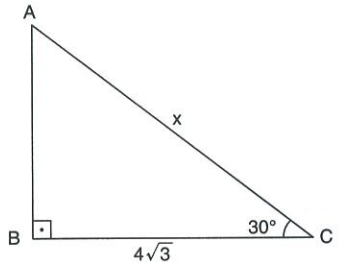
2.



$m(\widehat{A}) = \alpha$
$m(\widehat{B}) = 3\alpha$
$m(\widehat{C}) = 2\alpha$
$|AC| = 10$ br
$\Rightarrow |BC| = x = ?$

A) 5 B) $5\sqrt{3}$ C) 10 D) $10\sqrt{3}$ E) 30

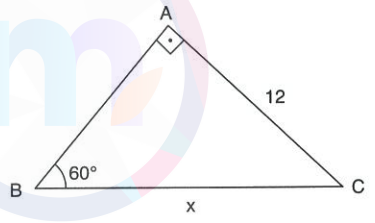
3.



$[AB] \perp [BC]$
$m(\widehat{ACB}) = 30°$
$|BC| = 4\sqrt{3}$ br
$\Rightarrow |AC| = x = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) 8 E) $8\sqrt{3}$

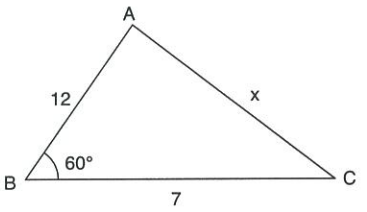
4.



$[BA] \perp [AC]$
$m(\widehat{ABC}) = 60°$
$|AC| = 12$ br
$\Rightarrow |BC| = x = ?$

A) 3 B) $3\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) $8\sqrt{3}$

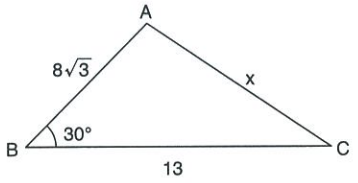
5.



$m(\widehat{ABC}) = 60°$
$|AB| = 12$ br
$|BC| = 7$ br
$\Rightarrow |AC| = x = ?$

A) $\sqrt{74}$ B) $\sqrt{101}$ C) $\sqrt{107}$ D) $\sqrt{109}$ E) $\sqrt{111}$

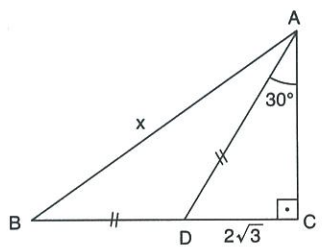
6.



$m(\widehat{ABC}) = 30$
$|AB| = 8\sqrt{3}$ br
$|BC| = 13$ br
$\Rightarrow |AC| = x = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

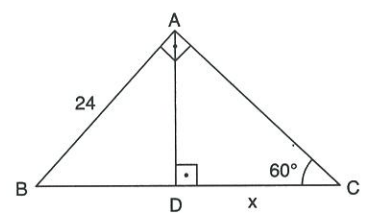
7.



$[AC] \perp [BC]$
$|AD| = |BD|$
$|DC| = 2\sqrt{3}$ br
$\Rightarrow |AB| = x = ?$

A) $4\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 12 E) $12\sqrt{3}$

8.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$m(\widehat{ACB}) = 60°$
$|AB| = 24$ br
$\Rightarrow |DC| = x = ?$

A) $4\sqrt{3}$ B) $6\sqrt{3}$ C) 6 D) 8 E) $8\sqrt{3}$

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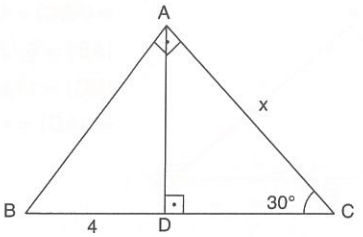
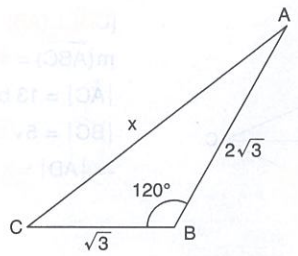
9.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$m(\widehat{ACB}) = 30°$
$|BD| = 4$ br
$\Rightarrow |AC| = x = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) $8\sqrt{3}$

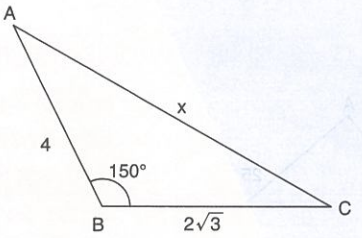
10.



$m(\widehat{ABC}) = 120°$
$|AB| = 2\sqrt{3}$ br
$|BC| = \sqrt{3}$ br
$\Rightarrow |AC| = x = ?$

A) $3\sqrt{3}$ B) 9 C) $4\sqrt{3}$ D) $5\sqrt{3}$ E) $\sqrt{21}$

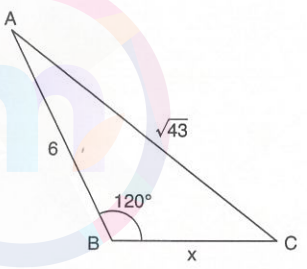
11.



$m(\widehat{ABC}) = 150°$
$|AB| = 4$ br
$|BC| = 2\sqrt{3}$ br
$\Rightarrow |AC| = x = ?$

A) 4 B) $2\sqrt{3}$ C) $\sqrt{7}$ D) 6 E) $2\sqrt{13}$

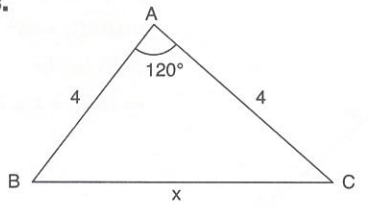
12.



$m(\widehat{ABC}) = 120°$
$|AB| = 6$ br
$|AC| = \sqrt{43}$ br
$\Rightarrow |BC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

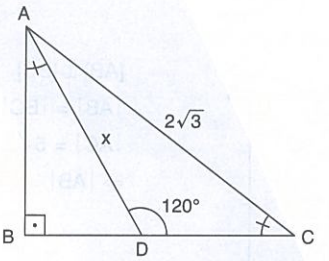
13.



$m(\widehat{BAC}) = 120°$
$|AB| = |AC| = 4$ br
$\Rightarrow |BC| = x = ?$

A) 1 B) 2 C) 4 D) $4\sqrt{2}$ E) $4\sqrt{3}$

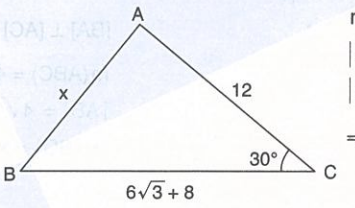
14.



$m(\widehat{BAD}) = m(\widehat{ACB})$
$|AC| = 2\sqrt{3}$
$m(\widehat{ADC}) = 120°$
$\Rightarrow |AD| = x = ?$

A) 2 B) $2\sqrt{3}$ C) 6 D) $6\sqrt{2}$ E) $6\sqrt{3}$

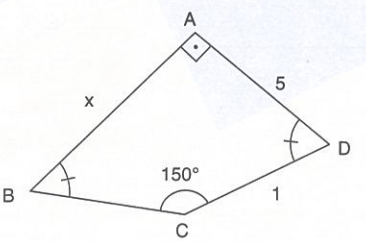
15.



$m(\widehat{ACB}) = 30°$
$|AC| = 12$ br
$|BC| = 6\sqrt{3} + 8$ br
$\Rightarrow |AB| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 13

16.



$m(\widehat{BCD}) = 150°$
$[BA] \perp [AD]$
$m(\widehat{B}) = m(\widehat{D})$
$|AD| = 5$ br
$|DC| = 1$ br
$\Rightarrow |AB| = x = ?$

A) 1 B) $\sqrt{2}$ C) $\sqrt{3}$ D) $2\sqrt{3}$ E) 6

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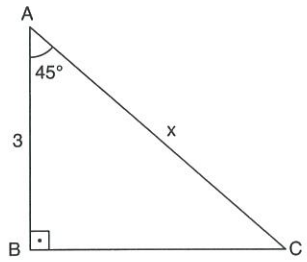
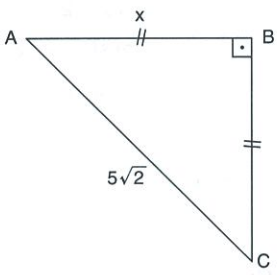
1.



$[AB] \perp [BC]$
$m(\widehat{BAC}) = 45°$
$|AB| = 3$ br
$\Rightarrow |AC| = x = ?$

A) $\frac{3}{2}$ B) $\frac{3\sqrt{2}}{2}$ C) 3 D) $3\sqrt{2}$ E) 6

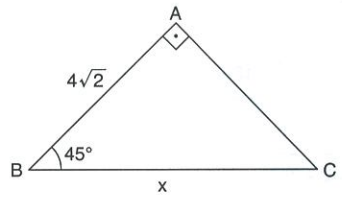
2.



$[AB] \perp [BC]$
$|AB| = |BC|$
$|AC| = 5\sqrt{2}$ br
$\Rightarrow |AB| = x = ?$

A) 10 B) $5\sqrt{3}$ C) 5 D) $\frac{5\sqrt{2}}{2}$ E) $\frac{5}{2}$

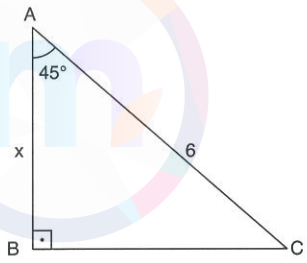
3.



$[BA] \perp [AC]$
$m(\widehat{ABC}) = 45°$
$|AB| = 4\sqrt{2}$ br
$\Rightarrow |BC| = x = ?$

A) $2\sqrt{2}$ B) 4 C) $4\sqrt{2}$ D) 8 E) $8\sqrt{2}$

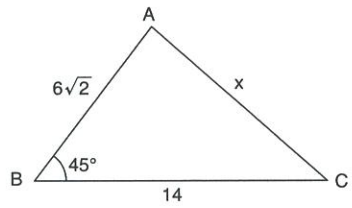
4.



$[AB] \perp [BC]$
$m(\widehat{BAC}) = 45°$
$|AC| = 6$ br
$\Rightarrow |AB| = x = ?$

A) 3 B) $3\sqrt{2}$ C) 6 D) $6\sqrt{2}$ E) 12

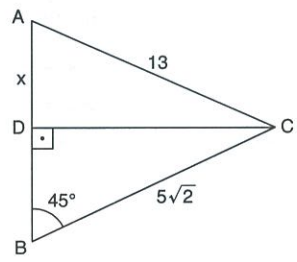
5.



$m(\widehat{ABC}) = 45°$
$|AB| = 6\sqrt{2}$ br
$|BC| = 14$ br
$\Rightarrow |AC| = x = ?$

A) 6 B) 8 C) $6\sqrt{2}$ D) $8\sqrt{2}$ E) 10

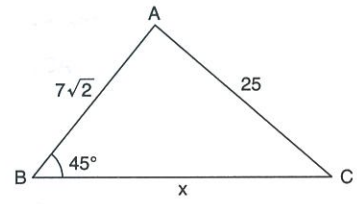
6.



$[CD] \perp [AB]$
$m(\widehat{ABC}) = 45°$
$|AC| = 13$ br
$|BC| = 5\sqrt{2}$ br
$\Rightarrow |AD| = x = ?$

A) 5 B) $5\sqrt{2}$ C) 12 D) $13\sqrt{2}$ E) 26

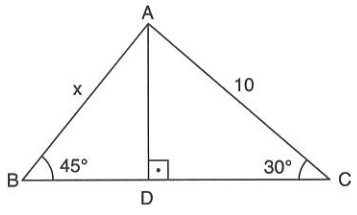
7.



$m(\widehat{ABC}) = 45°$
$|AB| = 7\sqrt{2}$ br
$|AC| = 25$ br
$\Rightarrow |BC| = x = ?$

A) 7 B) $7\sqrt{2}$ C) 24 D) 25 E) 31

8.



$[AD] \perp [BC]$
$m(\widehat{ABC}) = 45°$
$m(\widehat{ACB}) = 30°$
$|AC| = 10$ br
$\Rightarrow |AB| = x = ?$

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) $\sqrt{6}$ E) $10\sqrt{2}$

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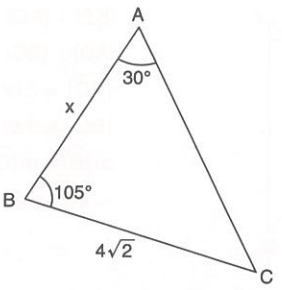
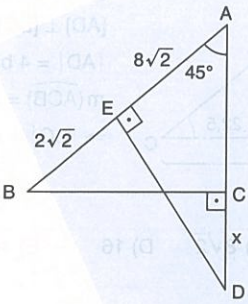
9.



$m(\widehat{ABC}) = 105°$
$m(\widehat{BAC}) = 30°$
$|BC| = 4\sqrt{2}$ br
$\Rightarrow |AB| = x = ?$

A) 2 B) $2\sqrt{2}$ C) 4 D) $4\sqrt{2}$ E) 8

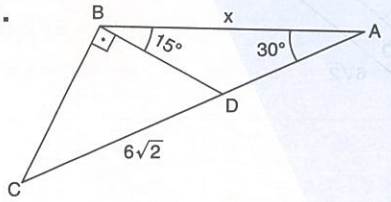
10.



$[DE] \perp [AB]$
$[BC] \perp [AD]$
$m(\widehat{BAC}) = 45°$
$|AE| = 8\sqrt{2}$
$|BE| = 2\sqrt{2}$
$\Rightarrow |DC| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

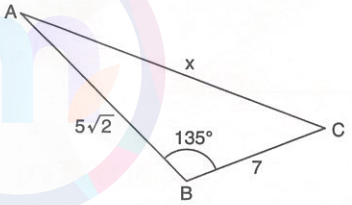
11.



$[DB] \perp [BC]$
$m(\widehat{BAC}) = 30°$
$m(\widehat{DBA}) = 15°$
$|DC| = 6\sqrt{2}$ br
$\Rightarrow |AB| = x = ?$

A) $2\sqrt{2}$ B) $3\sqrt{2}$ C) $4\sqrt{2}$ D) $5\sqrt{2}$ E) $6\sqrt{2}$

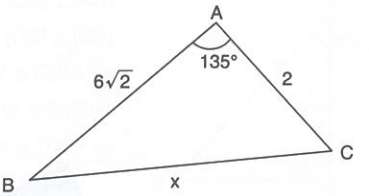
12.



$m(\widehat{ABC}) = 135°$
$|BC| = 7$ br
$|AB| = 5\sqrt{2}$ br
$\Rightarrow |AC| = x = ?$

A) 5 B) $5\sqrt{2}$ C) $7\sqrt{2}$ D) 13 E) 14

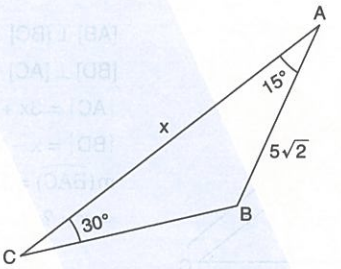
13.



$m(\widehat{BAC}) = 135°$
$|AC| = 2$ br
$|AB| = 6\sqrt{2}$ br
$\Rightarrow |BC| = x = ?$

A) 4 B) 6 C) 8 D) $8\sqrt{2}$ E) 10

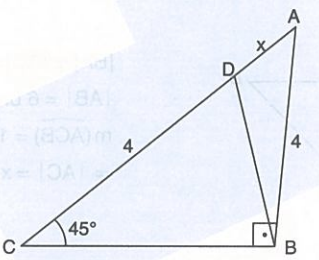
14.



$m(\widehat{BAC}) = 15°$
$m(\widehat{ACB}) = 30°$
$|AB| = 5\sqrt{2}$
$\Rightarrow |AC| = x = ?$

A) 5 B) 6 C) 8 D) $8\sqrt{2}$ E) 10

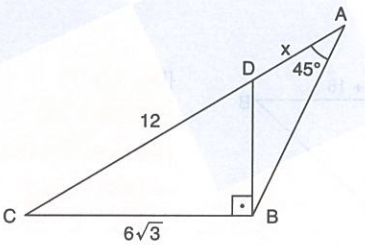
15.



$[AB] \perp [BC]$
$m(\widehat{ACB}) = 45°$
$|AB| = |CD| = 4$ br
$\Rightarrow |AD| = x = ?$

A) $(\sqrt{3}-1)$ B) $2(\sqrt{2}-1)$
C) $4(\sqrt{2}-1)$ D) $2(\sqrt{2}+1)$
E) $4(\sqrt{3}+1)$

16.



$[CB] \perp [BD]$
$m(\widehat{CAB}) = 45°$
$|DC| = 12$ br
$|BC| = 6\sqrt{3}$ br
$\Rightarrow |AD| = x = ?$

A) $(\sqrt{3}-1)$ B) $2(\sqrt{3}-1)$
C) $3(\sqrt{3}-1)$ D) $2(\sqrt{3}+1)$
E) $3(\sqrt{3}+1)$

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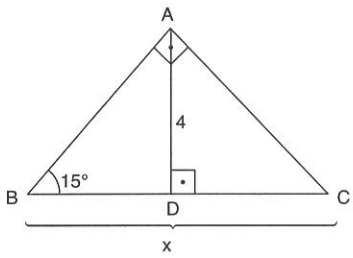
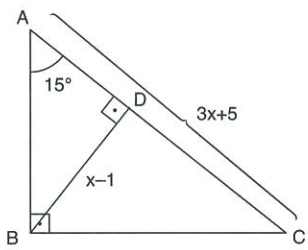
1.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
$m(\widehat{ABC}) = 15°$
$|AD| = 4$ br
$\Rightarrow |BC| = x = ?$

A) 1 B) 2 C) 4 D) 8 E) 16

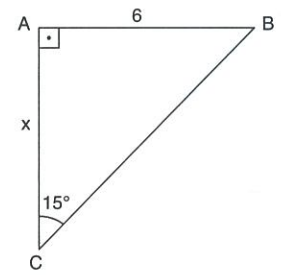
2.



[AB] ⊥ [BC]
[BD] ⊥ [AC]
$|AC| = 3x + 5$
$|BD| = x - 1$
$m(\widehat{BAC}) = 15°$
$\Rightarrow x = ?$

A) 7 B) 8 C) 9 D) 10 E) 11

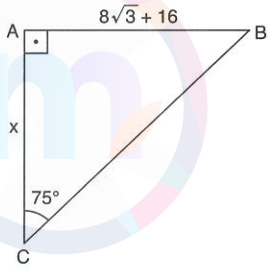
3.



[BA] ⊥ [AC]
$|AB| = 6$ br
$m(\widehat{ACB}) = 15°$
$\Rightarrow |AC| = x = ?$

A) $6(\sqrt{3}+2)$ B) $6(\sqrt{3}+1)$
C) $6(\sqrt{3}-1)$ D) $3(\sqrt{3}+1)$
E) $3(\sqrt{3}-1)$

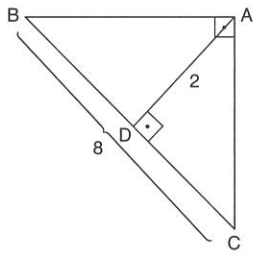
4.



[BA] ⊥ [AC]
$m(\widehat{ACB}) = 75°$
$|AB| = 8\sqrt{3} + 16$ br
$\Rightarrow |AC| = x = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

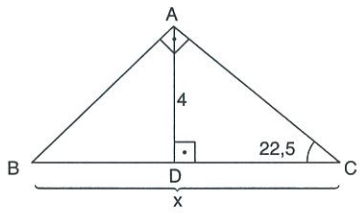
5.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
$|AD| = 2$ br
$|BC| = 8$ br
$m(\widehat{B}) > m(\widehat{C})$
$\Rightarrow m(\widehat{B}) = ?$

A) 15 B) 30 C) 45 D) 60 E) 75

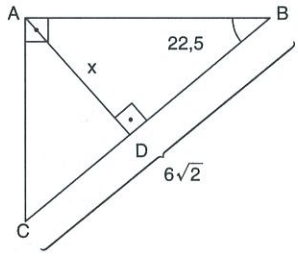
6.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
$|AD| = 4$ br
$m(\widehat{ACB}) = 22,5°$
$\Rightarrow |BC| = x = ?$

A) 4 B) $4\sqrt{2}$ C) $8\sqrt{2}$ D) 16 E) $16\sqrt{2}$

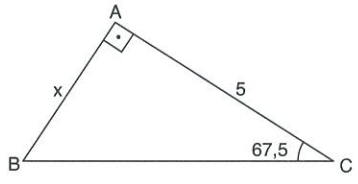
7.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
$m(\widehat{ABC}) = 22,5°$
$|BC| = 6\sqrt{2}$ br
$\Rightarrow |AD| = x = ?$

A) 2 B) 3 C) $3\sqrt{2}$ D) 6 E) $6\sqrt{2}$

8.



[BA] ⊥ [AC]
$m(\widehat{ABC}) = 67,5°$
$|AC| = 5$ br
$\Rightarrow |AB| = x = ?$

A) $5(\sqrt{2}+1)$ B) $10(\sqrt{2}+1)$
C) $5(\sqrt{2}-1)$ D) $10(\sqrt{2}-1)$
E) $5\sqrt{2}$

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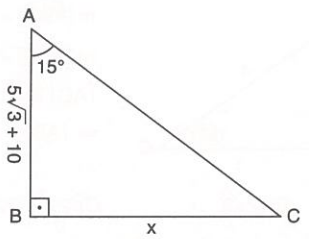
PUZA YAYINLARI
PUZA YAYINLARI

9.



$[AB] \perp [BC]$

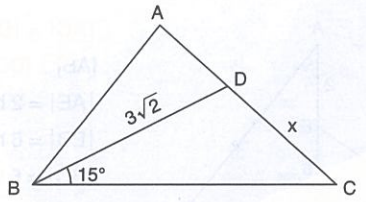
$m(\widehat{BAC}) = 15°$

$|AB| = 5\sqrt{3} + 10$ br

$\Rightarrow |BC| = x = ?$

A) 4 B) 5 C) 6 D) 8 E) 10

10.



ABC eşkenar üçgen

ABC equilateral triangle

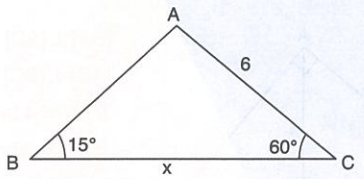
$m(\widehat{DBC}) = 15°$

$|BD| = 3\sqrt{2}$

$\Rightarrow |DC| = x = ?$

A) $3+\sqrt{3}$ B) 2 C) 3 D) $3-\sqrt{3}$ E) $2+\sqrt{3}$

11.



$m(\widehat{ACB}) = 60°$

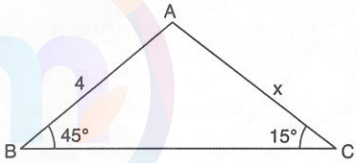
$m(\widehat{ABC}) = 15°$

$|AC| = 6$ br

$\Rightarrow |BC| = x = ?$

A) $12(1+\sqrt{3})$ B) $6(2+\sqrt{3})$ C) $6(1+\sqrt{3})$ D) $3(1+2\sqrt{3})$ E) $66\sqrt{3}$

12.



$m(\widehat{ABC}) = 45°$

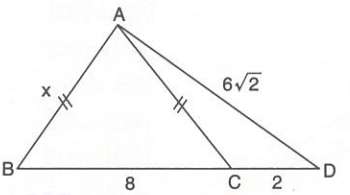
$m(\widehat{ACB}) = 15°$

$|AB| = 4$ br

$\Rightarrow |AC| = x = ?$

A) $4(1+\sqrt{3})$ B) $2(2+\sqrt{3})$ C) $2(1+2\sqrt{3})$ D) $4\sqrt{3}$ E) 4

13.



$|AB| = |AC|$

$|BC| = 8$ br

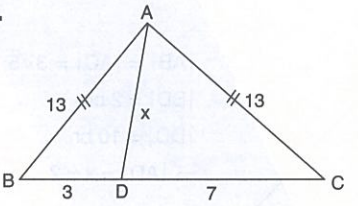
$|AD| = 6\sqrt{2}$ br

$|CD| = 2$ br

$\Rightarrow |AB| = x = ?$

A) 4 B) $4\sqrt{2}$ C) $\sqrt{13}$ D) $2\sqrt{13}$ E) 10

14.



$|AB| = |AC| = 13$ br

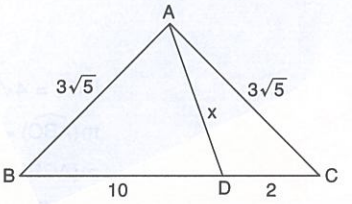
$|BD| = 3$ br

$|DC| = 7$ br

$\Rightarrow |AD| = x = ?$

A) $\sqrt{37}$ B) $\sqrt{39}$ C) 7 D) $2\sqrt{37}$ E) $2\sqrt{39}$

15.



$|AB| = 3\sqrt{5}$ br

$|AC| = 3\sqrt{5}$ br

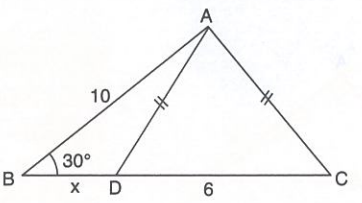
$|BD| = 10$ br

$|DC| = 2$ br

$\Rightarrow |AD| = x = ?$

A) $\sqrt{5}$ B) $\sqrt{10}$ C) 5 D) 10 E) $10\sqrt{2}$

16.



$|AD| = |AC|$

$m(\widehat{ABC}) = 30°$

$|AB| = 10$ br

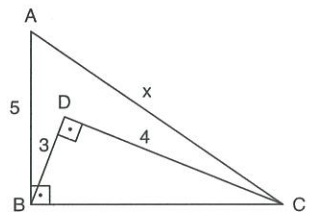
$|DC| = 6$ br

$\Rightarrow |BD| = x = ?$

A) $\sqrt{3}$ B) $2\sqrt{3}$ C) $5\sqrt{3}$ D) $5(\sqrt{3}-1)$ E) $5\sqrt{3}-3$

PUZA YAYINLARI

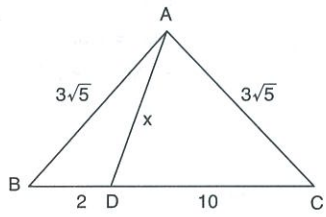
1.



$[AB] \perp [BC]$
$[BD] \perp [DC]$
$|AB| = 5$ br
$|DC| = 4$ br
$|BD| = 3$ br
$\Rightarrow |AC| = x = ?$

A) 10 B) 8 C) $5\sqrt{3}$ D) $5\sqrt{2}$ E) 5

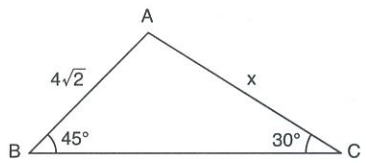
2.



$|AB| = |AC| = 3\sqrt{5}$ br
$|BD| = 2$ br
$|DC| = 10$ br
$\Rightarrow |AD| = x = ?$

A) $5\sqrt{2}$ B) 5 C) 4 D) $4\sqrt{2}$ E) 3

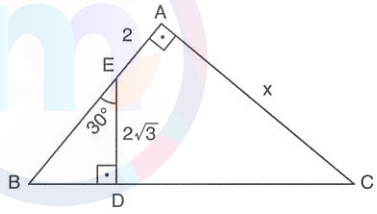
3.



$|AB| = 4\sqrt{2}$ br
$m(\widehat{ABC}) = 45°$
$m(\widehat{ACB}) = 30°$
$\Rightarrow |AC| = x = ?$

A) $4\sqrt{3}$ B) 8 C) $6\sqrt{2}$ D) 6 E) 12

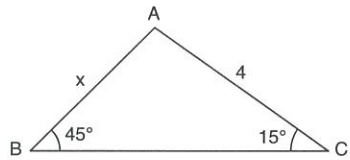
4.



$[BA] \perp [AC]$
$[ED] \perp [BC]$
$m(\widehat{BED}) = 30°$
$|ED| = 2\sqrt{3}$ br
$|EA| = 2$ br
$\Rightarrow |AC| = x = ?$

A) 4 B) $4\sqrt{3}$ C) 8 D) $6\sqrt{3}$ E) 12

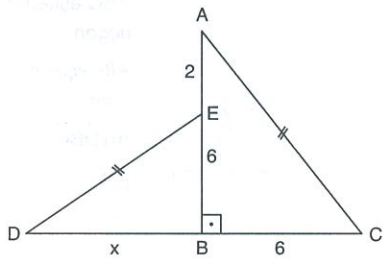
5.



$m(\widehat{ABC}) = 45°$
$m(\widehat{ACB}) = 15°$
$|AC| = 4$ br
$\Rightarrow |AB| = x = ?$

A) 2 B) $2\sqrt{3}$ C) $2\sqrt{3} - 2$ D) $2\sqrt{3} + 2$ E) $6\sqrt{2}$

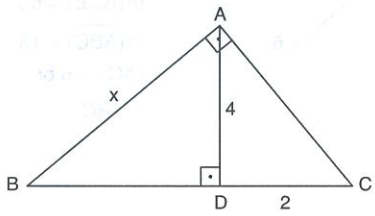
6.



$|AC| = |DE|$
$[AB] \perp [DC]$
$|AE| = 2$ br
$|EB| = 6$ br
$|BC| = 6$ br
$\Rightarrow |BD| = x = ?$

A) 4 B) 6 C) 8 D) 10 E) 15

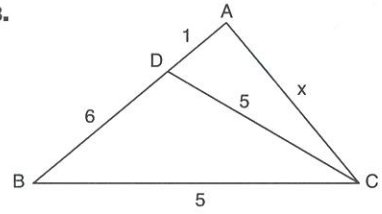
7.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$|AD| = 4$ br
$|DC| = 2$ br
$\Rightarrow |AB| = x = ?$

A) $4\sqrt{2}$ B) 5 C) $4\sqrt{5}$ D) 10 E) $8\sqrt{5}$

8.



$|DC| = |BC| = 5$ br
$|AD| = 1$ br
$|BD| = 6$ br
$\Rightarrow |AC| = x = ?$

A) $4\sqrt{2}$ B) 5 C) 6 D) $6\sqrt{2}$ E) 8

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PUZA YAYINLARI
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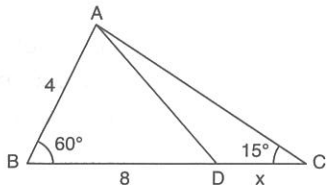
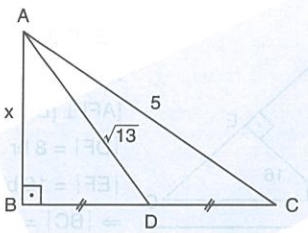
9.



$m(\widehat{ABC}) = 60°$
$m(\widehat{ACB}) = 15°$
$|AB| = 4$ br
$|BD| = 8$ br
$\Rightarrow |DC| = x = ?$

A) 4 B) $4\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) $2\sqrt{3}$

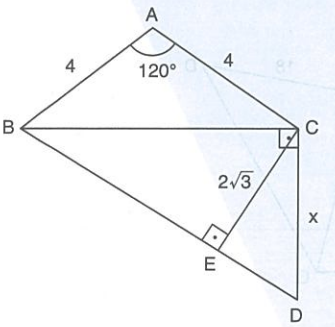
10.



$|BD| = |DC|$
$[AB] \perp [BC]$
$|AC| = 5$ br
$|AD| = \sqrt{13}$ br
$\Rightarrow |AB| = x = ?$

A) 2 B) 3 C) $3\sqrt{2}$ D) 4 E) $4\sqrt{2}$

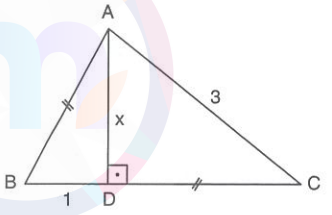
11.



$m(\widehat{BAC}) = 120°$
$[CE] \perp [BD]$
$[BC] \perp [CD]$
$|AB| = |AC| = 4$ br
$|EC| = 2\sqrt{3}$ br
$\Rightarrow |CD| = x = ?$

A) 2 B) 4 C) 6 D) $6\sqrt{3}$ E) 8

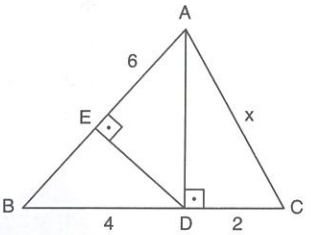
12.



$[AD] \perp [BC]$
$|AB| = |DC|$
$|AC| = 3$ br
$|BD| = 1$ br
$\Rightarrow |AD| = x = ?$

A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

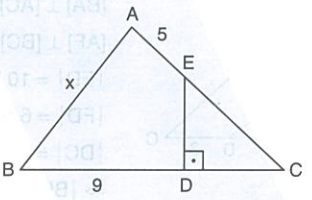
13.



$[DE] \perp [AB]$
$[AD] \perp [BC]$
$|AE| = 6$ br
$|DC| = 2$ br
$|BD| = 4$ br
$\Rightarrow |AC| = x = ?$

A) $4\sqrt{2}$ B) 5 C) $\sqrt{17}$ D) $2\sqrt{13}$ E) $2\sqrt{17}$

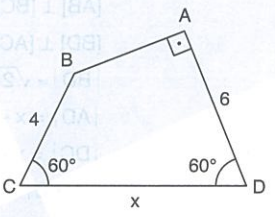
14.



ABC eşkenar üçgen
ABC equilateral triangle
$[ED] \perp [BC]$
$|AE| = 5$ br
$|BD| = 9$ br
$\Rightarrow |AB| = x = ?$

A) 14 B) 13 C) 12 D) 11 E) 10

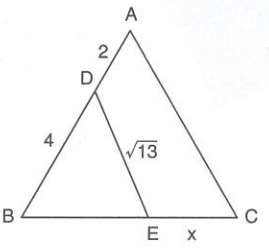
15.



$m(\widehat{BCD}) = 60°$
$m(\widehat{CDA}) = 60°$
$[BA] \perp [AD]$
$|BC| = 4$ br
$|AD| = 6$ br
$\Rightarrow |CD| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

16.



ABC eşkenar üçgen
ABC equilateral triangle
$|AD| = 2$ br
$|BD| = 4$ br
$|DE| = \sqrt{13}$ br
$\Rightarrow |EC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

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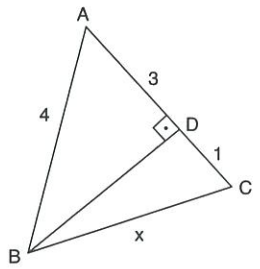
PUZA YAYINLARI

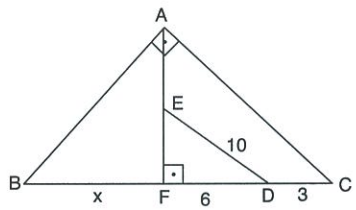
1.



[BD] ⊥ [AC]
|AB| = 4 br
|AD| = 3 br
|DC| = 1 br
⇒ |BC| = x = ?

A) $2\sqrt{2}$ B) $3\sqrt{2}$ C) $\sqrt{26}$ D) $2\sqrt{26}$ E) 26

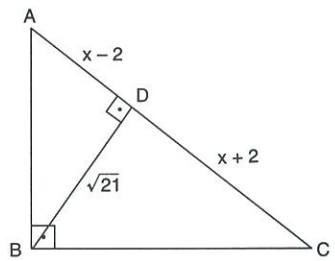
2.



2|AE| = |EF|
[BA] ⊥ [AC]
[AF] ⊥ [BC]
|ED| = 10 br
|FD| = 6 br
|DC| = 3 br
⇒ |BF| = x = ?

A) 4 B) 6 C) 9 D) 12 E) 16

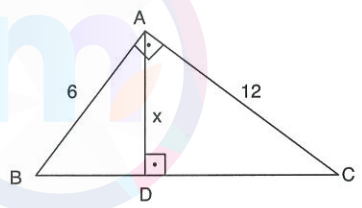
3.



[AB] ⊥ [BC]
[BD] ⊥ [AC]
|BD| = $\sqrt{21}$ br
|AD| = x − 2
|DC| = x + 2
⇒ |AC| = ?

A) 4 B) 5 C) 6 D) 8 E) 10

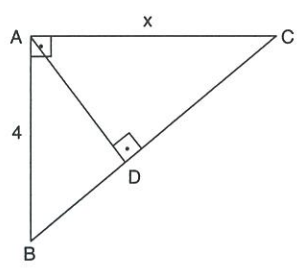
4.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
|AB| = 6 br
|AC| = 12 br
⇒ |AD| = x = ?

A) 3 B) 6 C) $6\sqrt{5}$ D) $\frac{12\sqrt{5}}{5}$ E) $12\sqrt{5}$

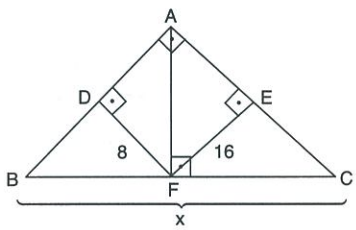
5.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
|DC| = 3|BD|
|AB| = 4 br
⇒ |AC| = x = ?

A) $\sqrt{3}$ B) $2\sqrt{3}$ C) $4\sqrt{3}$ D) $6\sqrt{3}$ E) $8\sqrt{3}$

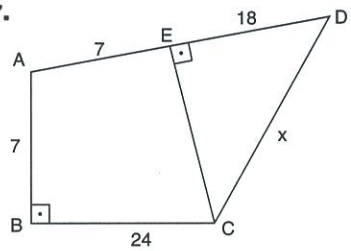
6.



AEFD dikdörtgen
AEFD rectangle
[AF] ⊥ [BC]
|DF| = 8 br
|EF| = 16 br
⇒ |BC| = x = ?

A) $4\sqrt{5}$ B) $8\sqrt{5}$ C) $12\sqrt{5}$ D) $16\sqrt{5}$ E) $20\sqrt{5}$

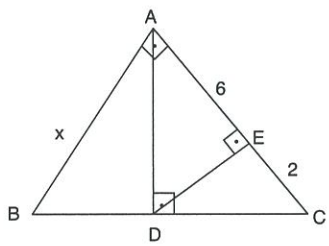
7.



[AB] ⊥ [BC]
[CE] ⊥ [AD]
|BA| = |AE| = 7 br
|ED| = 18 br
|BC| = 24 br
⇒ |DC| = x = ?

A) 18 B) 20 C) 24 D) 25 E) 30

8.



[BA] ⊥ [AC]
[AD] ⊥ [BC]
[DE] ⊥ [AC]
|AE| = 6 br
|EC| = 2 br
⇒ |AB| = x = ?

A) $\sqrt{3}$ B) $2\sqrt{3}$ C) 6 D) $4\sqrt{3}$ E) $8\sqrt{3}$

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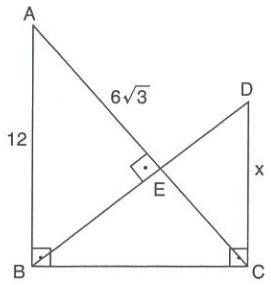
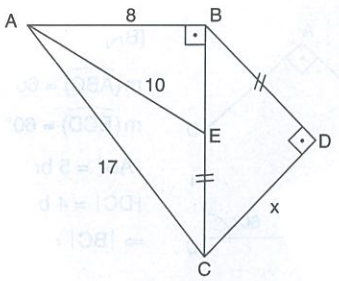
9.



[AB] ⊥ [BC]
[BC] ⊥ [DC]
[BE] ⊥ [AC]
|AE| = 6√3 br
|AB| = 12 br
⇒ |DC| = x = ?

A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) $6\sqrt{3}$

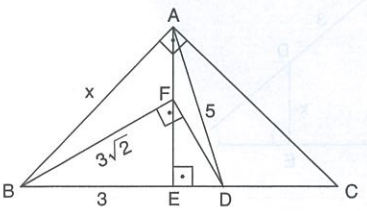
10.



[AB] ⊥ [BC]
[BD] ⊥ [DC]
|BD| = |EC|
|AB| = 8 br
|AE| = 10 br
|AC| = 17 br
⇒ |DC| = x = ?

A) 6 B) 9 C) 12 D) 15 E) 20

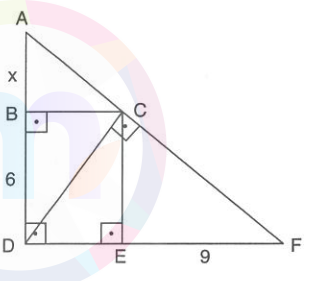
11.



[BA] ⊥ [AC]
[BF] ⊥ [FD]
[AE] ⊥ [BC]
|BF| = 3√2 br
|AD| = 5 br
|BE| = 3 br
⇒ |AB| = x = ?

A) 5 B) $5\sqrt{3}$ C) 15 D) $\sqrt{30}$ E) 30

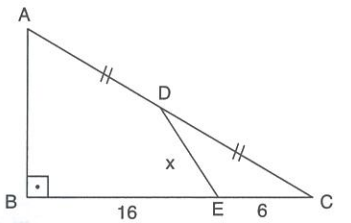
12.



BCED dikdörtgen
BCED rectangle
[DC] ⊥ [AF]
|BD| = 6 br
|EF| = 9 br
⇒ |AB| = x = ?

A) $\frac{4}{3}$ B) $\frac{8}{3}$ C) $\frac{16}{3}$ D) $\frac{7}{2}$ E) 7

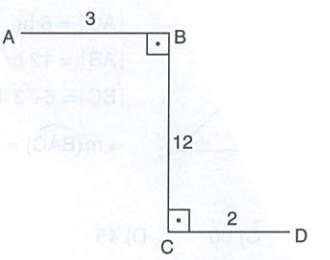
13.



[AB] ⊥ [BC]
|AD| = |DC|
|BE| = 16 br
|EC| = 6 br
|AC| = 24 br
⇒ |DE| = x = ?

A) $2\sqrt{29}$ B) $\sqrt{29}$ C) $4\sqrt{3}$ D) 7 E) 5

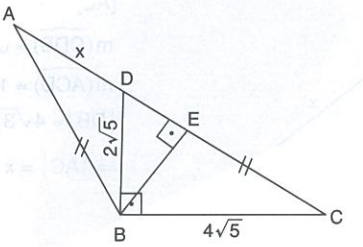
14.



[AB] ⊥ [BC]
[BC] ⊥ [CD]
|AB| = 3 br
|BC| = 12 br
|CD| = 2 br
⇒ |AD| = ?

A) 5 B) 10 C) 12 D) 13 E) 15

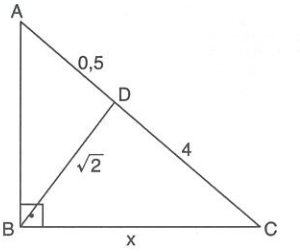
15.



[DB] ⊥ [BC]
[BE] ⊥ [DC]
|AB| = |EC|
|BD| = 2√5 br
|BC| = 4√5 br
⇒ |AD| = x = ?

A) $2(\sqrt{3}-1)$ B) $4(\sqrt{3}-1)$
C) $4\sqrt{3}-2$ D) $4(\sqrt{3}+1)$
E) $2(\sqrt{3}+1)$

16.



[AB] ⊥ [DC]
|AD| = 0,5 br
|DC| = 4 br
|BD| = √2 br
⇒ |BC| = x = ?

A) $\sqrt{2}$ B) $2\sqrt{2}$ C) $3\sqrt{2}$ D) $4\sqrt{2}$ E) $5\sqrt{2}$

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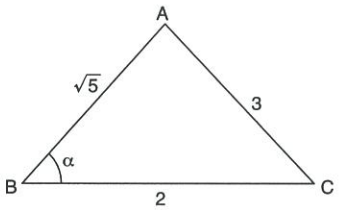
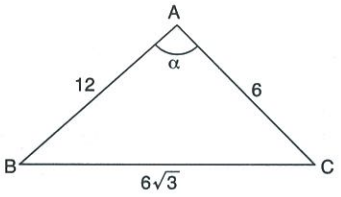
1.



$|AC| = 3$ br
$|BC| = 2$ br
$|AB| = \sqrt{5}$ br
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 90 B) 75 C) 60 D) 45 E) 30

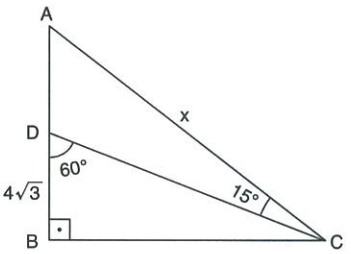
2.



$|AC| = 6$ br
$|AB| = 12$ br
$|BC| = 6\sqrt{3}$ br
$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 90 B) 75 C) 60 D) 45 E) 30

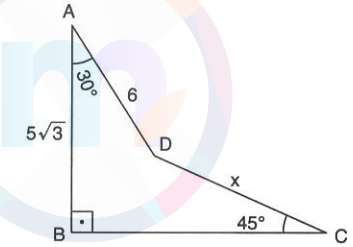
3.



$[AB] \perp [BC]$
$m(\widehat{CDB}) = 60°$
$m(\widehat{ACD}) = 15°$
$|DB| = 4\sqrt{3}$ br
$\Rightarrow |AC| = x = ?$

A) $8\sqrt{3}$ B) $12\sqrt{6}$ C) 12 D) $12\sqrt{2}$ E) $12\sqrt{3}$

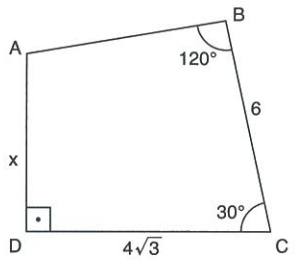
4.



$[AB] \perp [BC]$
$m(\widehat{BAD}) = 30°$
$m(\widehat{BCD}) = 45°$
$|AD| = 6$ br
$|AB| = 5\sqrt{3}$ br
$\Rightarrow |DC| = x = ?$

A) 3 B) 6 C) $2\sqrt{3}$ D) $3\sqrt{3}$ E) $2\sqrt{6}$

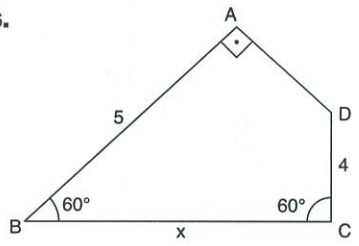
5.



$[AD] \perp [DC]$
$m(\widehat{ABC}) = 120°$
$m(\widehat{BCD}) = 30°$
$|BC| = 6$ br
$|DC| = 4\sqrt{3}$ br
$\Rightarrow |AD| = x = ?$

A) 1 B) 2 C) 3 D) $2\sqrt{3}$ E) $3\sqrt{3}$

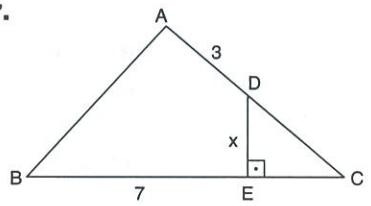
6.



$[BA] \perp [AD]$
$m(\widehat{ABC}) = 60°$
$m(\widehat{BCD}) = 60°$
$|AB| = 5$ br
$|DC| = 4$ br
$\Rightarrow |BC| = x = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

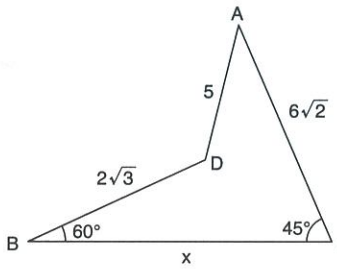
7.



ABC eşkenar üçgen
ABC equilateral triangle
$[DE] \perp [EC]$
$|AD| = 3$ br
$|BE| = 7$ br
$\Rightarrow |DE| = x = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) $8\sqrt{3}$

8.



$m(\widehat{DAC}) > 45°$
$m(\widehat{DBC}) = 60°$
$m(\widehat{ACB}) = 45°$
$|AD| = 5$ br
$|AC| = 6\sqrt{2}$ br
$|BD| = 2\sqrt{3}$ br
$\Rightarrow |BC| = x = ?$

A) $4(\sqrt{3}+1)$ B) $4(\sqrt{3}+1)$
C) $6\sqrt{3}+1$ D) $10+\sqrt{3}$
E) $6+\sqrt{3}$

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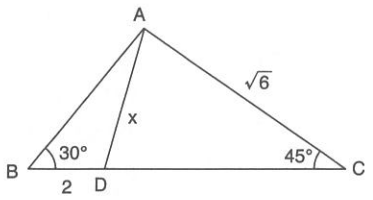
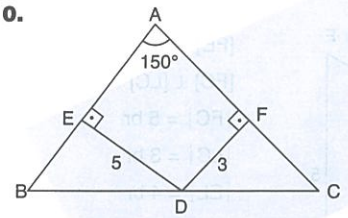
9.



$m(\widehat{ABC}) = 30°$
$m(\widehat{ACB}) = 45°$
$|AC| = \sqrt{6}$ br
$|BD| = 2$ br
$\Rightarrow |AD| = x = ?$

A) 1 B) 2 C) $\sqrt{3}$ D) $\sqrt{5}$ E) $\sqrt{6}$

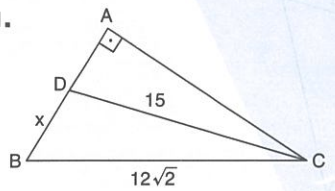
10.



$|AB| = |AC|$
$[DE] \perp [AB]$
$[DF] \perp [AC]$
$|DE| = 5$ br
$|DF| = 3$ br
$m(\widehat{BAC}) = 150°$
$\Rightarrow |BE| + |FC| = ?$

A) $10+5\sqrt{3}$ B) $6+3\sqrt{3}$ C) $10+8\sqrt{3}$
D) $16+5\sqrt{3}$ E) $16+8\sqrt{3}$

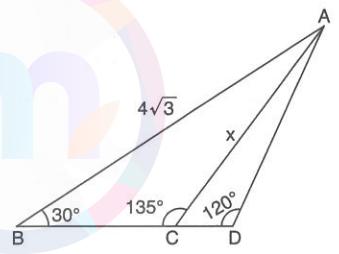
11.



$[BA] \perp [AC]$
$|AB| = |AC|$
$|BC| = 12\sqrt{2}$ br
$|DC| = 15$ br
$|DB| = x$
$\Rightarrow x = ?$

A) 10 B) 9 C) 6 D) 5 E) 3

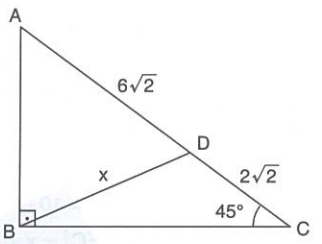
12.



$m(\widehat{ABD}) = 30°$
$m(\widehat{ACB}) = 135°$
$m(\widehat{ADB}) = 120°$
$|AB| = 4\sqrt{3}$ br
$\Rightarrow |AC| = x = ?$

A) $\sqrt{3}$ B) $2\sqrt{3}$ C) $4\sqrt{3}$ D) $2\sqrt{6}$ E) 6

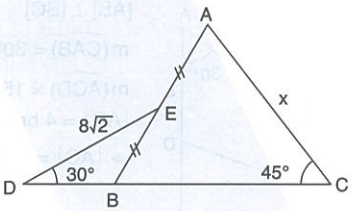
13.



$[AB] \perp [BC]$
$m(\widehat{BCA}) = 45°$
$|AD| = 6\sqrt{2}$ br
$|DC| = 2\sqrt{2}$ br
$\Rightarrow |BD| = x = ?$

A) 2 B) 3 C) $2\sqrt{7}+2$
D) $4\sqrt{2}$ E) $2\sqrt{10}$

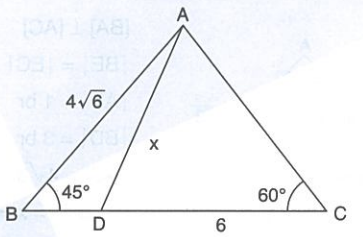
14.



$m(\widehat{ACD}) = 45°$
$m(\widehat{EDC}) = 30°$
$|AB| = |AC|$
$|AE| = |EB|$
$|DE| = 8\sqrt{2}$ br
$\Rightarrow |AC| = x = ?$

A) 4 B) 6 C) 8 D) 12 E) 16

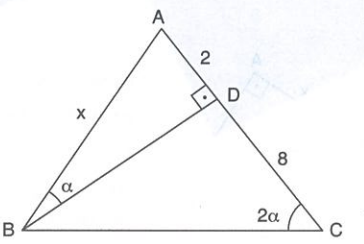
15.



$m(\widehat{ABC}) = 45$
$m(\widehat{ACB}) = 60°$
$|AB| = 4\sqrt{6}$ br
$|DC| = 6$ br
$\Rightarrow |AD| = x = ?$

A) $2\sqrt{3}$ B) $2\sqrt{13}$ C) $2\sqrt{7}$ D) $4\sqrt{10}$ E) $4\sqrt{7}$

16.



$[BD] \perp [AC]$
$m(\widehat{ACB}) = 2\alpha$
$m(\widehat{ABD}) = \alpha$
$|AD| = 2$ br
$|DC| = 8$ br
$\Rightarrow |AB| = x = ?$

A) $2\sqrt{6}$ B) $4\sqrt{2}$ C) $2\sqrt{10}$ D) $4\sqrt{3}$ E) $2\sqrt{15}$

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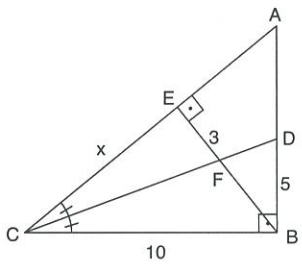
PUZA YAYINLARI

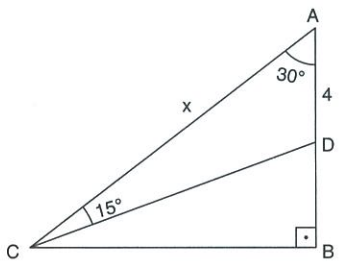
1.



$[AB] \perp [BC]$
$[BE] \perp [AC]$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|EF| = 3$ br
$|DB| = 5$ br
$|BC| = 10$ br
$\Rightarrow |EC| = x = ?$

A) 4 B) 5 C) 6 D) 10 E) 12

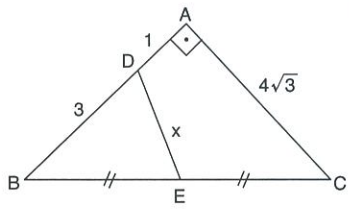
2.



$[AB] \perp [BC]$
$m(\widehat{CAB}) = 30°$
$m(\widehat{ACD}) = 15°$
$|AD| = 4$ br
$\Rightarrow |AC| = x = ?$

A) 6 B) 8 C) 10 D) $4(\sqrt{3}-1)$ E) $4(\sqrt{3}+1)$

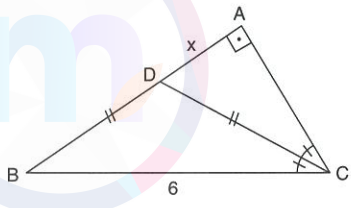
3.



$[BA] \perp [AC]$
$|BE| = |EC|$
$|AD| = 1$ br
$|BD| = 3$ br
$|AC| = 4\sqrt{3}$ br
$\Rightarrow |DE| = x = ?$

A) $\sqrt{2}$ B) $\sqrt{3}$ C) $\sqrt{5}$ D) $\sqrt{7}$ E) $\sqrt{13}$

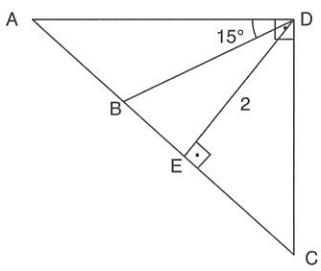
4.



$[BA] \perp [AC]$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|BD| = |DC|$
$|BC| = 6$ br
$\Rightarrow |AD| = x = ?$

A) $\sqrt{2}$ B) $\sqrt{3}$ C) 3 D) 4 E) $\sqrt{6}$

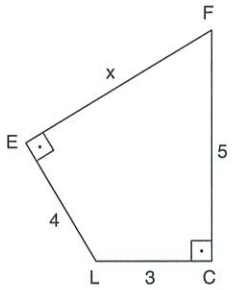
5.



$|BD| = |BC|$
$[AD] \perp [DC]$
$[DE] \perp [AC]$
$|ED| = 2$ br
$m(\widehat{ADB}) = 15°$
$\Rightarrow |AC| = ?$

A) $\frac{1}{2}$ B) 1 C) 2 D) 4 E) 8

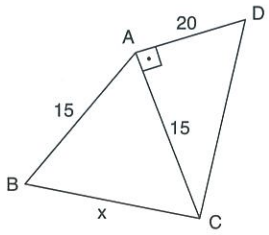
6.



$[FE] \perp [EL]$
$[FC] \perp [LC]$
$|FC| = 5$ br
$|LC| = 3$ br
$|EL| = 4$ br
$\Rightarrow |EF| = x = ?$

A) $\sqrt{2}$ B) 3 C) $3\sqrt{2}$ D) $4\sqrt{2}$ E) 5

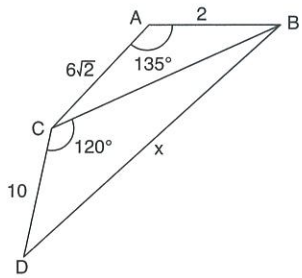
7.



$|AB| = |AC| = 15$ br
$m(\widehat{ADC}) = m(\widehat{ABC})$
$[DA] \perp [AC]$
$|AD| = 20$ br
$\Rightarrow |BC| = x = ?$

A) 9 B) 12 C) 15 D) 18 E) 24

8.



$m(\widehat{BAC}) = 135°$
$m(\widehat{BCD}) = 120°$
$|AB| = 2$ br
$|AC| = 6\sqrt{2}$ br
$|DC| = 10$ br
$\Rightarrow |BD| = x = ?$

A) 5 B) $5\sqrt{3}$ C) 10 D) $10\sqrt{2}$ E) $10\sqrt{3}$

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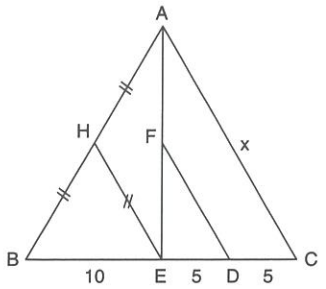
PUZA YAYINLARI
PUZA YAYINLARI

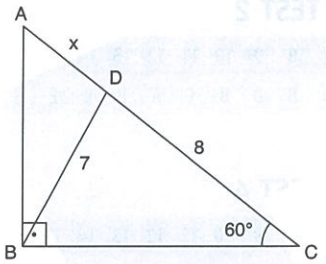
9.



$|AH| = |HB| = |HE|$
$|AF| = |FE|$
$|ED| = |DC| = 5$ br
$|BE| = 10$ br
$|AB| = 16$ br
$\Rightarrow |AC| = x = ?$

A) 6 B) 9 C) 12 D) 16 E) 20

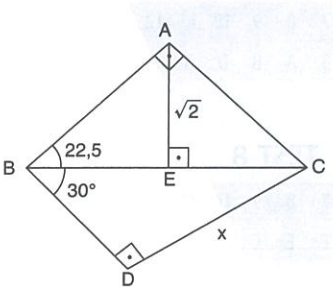
10.



$[AB] \perp [BC]$
$|DC| = 8$ br
$|BD| = 7$ br
$m(\widehat{ACB}) = 60°$
$\Rightarrow |AD| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 8

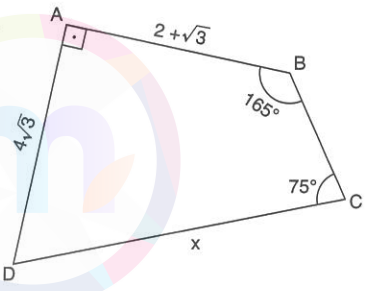
11.



$[BA] \perp [AC]$
$[AE] \perp [BC]$
$[BD] \perp [DC]$
$|AE| = \sqrt{2}$ br
$m(\widehat{ABC}) = 22,5°$
$m(\widehat{CBD}) = 30°$
$\Rightarrow |DC| = x = ?$

A) 1 B) $\sqrt{2}$ C) 2 D) $2\sqrt{2}$ E) 4

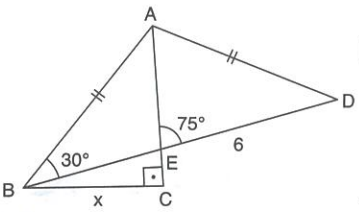
12.



$[DA] \perp [AB]$
$m(\widehat{ABC}) = 165°$
$|AB| = 2 + \sqrt{3}$ br
$|AD| = 4\sqrt{3}$ br
$m(\widehat{BCD}) = 75°$
$\Rightarrow |DC| = x = ?$

A) $\sqrt{3} + 4$ B) $3\sqrt{3}$ C) $2\sqrt{3} + 1$
D) $4\sqrt{3} + 1$ E) $5 + 2\sqrt{3}$

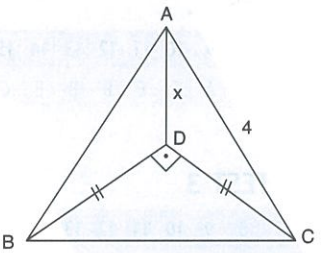
13.



$|BA| = |AD|$
$[AC] \perp [BC]$
$m(\widehat{ABD}) = 30°$
$m(\widehat{AED}) = 75°$
$|ED| = 6$ br
$\Rightarrow |BC| = x = ?$

A) 3 B) $3\sqrt{2}$ C) $3\sqrt{3}$ D) 6 E) $6\sqrt{2}$

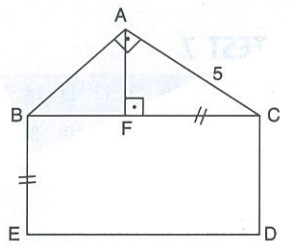
14.



ABC eşkenar üçgen
ABC equilateral triangle
$[BD] \perp [DC]$
$|BD| = |DC|$
$|AC| = 4$ br
$\Rightarrow |AD| = x = ?$

A) 2 B) $2\sqrt{3} - 2$ C) $2\sqrt{3}$
D) $4\sqrt{3}$ E) 12

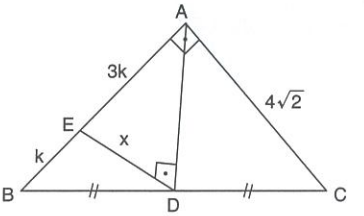
15.



BCDE dikdörtgen
BCDE rectangle
$[BA] \perp [AC]$
$[AF] \perp [BC]$
$|FC| = |BE|$
$|BF| = 24$ br
$|AC| = 5$ br
$\Rightarrow$ Ç(BCDE) = ?

A) 45 B) 49 C) 50 D) 51 E) 52

16.



$[AB] \perp [AC]$
$[AD] \perp [DE]$
$|AE| = 3|EB|$
$|BD| = |DC|$
$|AC| = 4\sqrt{2}$
$\Rightarrow |ED| = x = ?$

A) $\sqrt{3}$ B) 3 C) $2\sqrt{3}$ D) $\sqrt{6}$ E) 6

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PUZA YAYINLARI
PUZA YAYINLARI

DİK ÜÇGEN RIGHT TRIANGLES
Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	C	E	A	B	D	B	A	C	E	B	B	E	C	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	C	B	A	D	D	D	B	D	B	C	A	B	B	E	C

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	C	C	C	E	B	E	B	E	E	A	B	A	D	D

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	A	D	E	D	D	D	A	E	E	E	A	E	A	C	D

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	D	B	E	C	E	B	E	C	E	D	E	E	C	C

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	C	A	E	E	C	B	A	B	D	B	A	D	D	C	E

TEST 7

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	B	D	C	C	C	A	B	B	B	D	D	B	B	C

TEST 8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	E	E	D	C	E	E	E	C	C	A	B	C	D	C	C

TEST 9

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	C	D	E	B	D	D	D	B	E	E	D	E	E	B	C

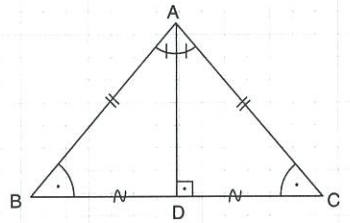
TEST 10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	E	E	B	E	C	E	E	D	B	C	D	B	B	E	C

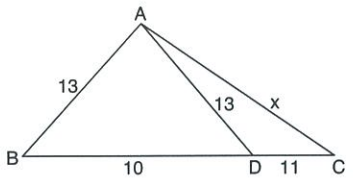
İKİZKENAR-EŞKENAR ÜÇGEN

ISOSCELES-EQUILATERAL TRIANGLE

ÖZELLİK | Property 1



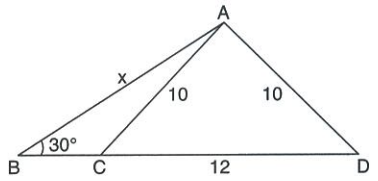
1.



⇒ x = ?

20

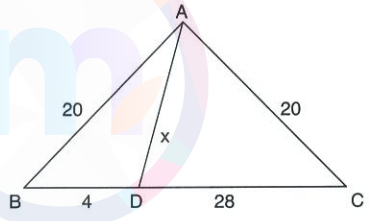
2.



⇒ x = ?

16

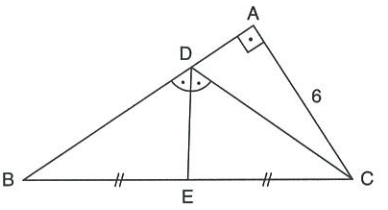
3.



⇒ x = ?

$12\sqrt{2}$

4.

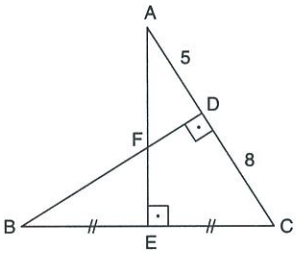


|AB| = 18 br

⇒ Ç(ADC) = ?

24

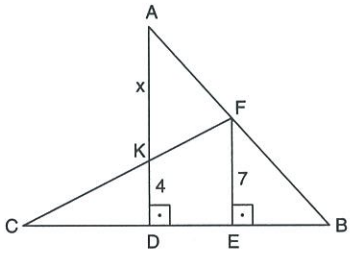
5.



⇒ |BD| = ?

12

6.

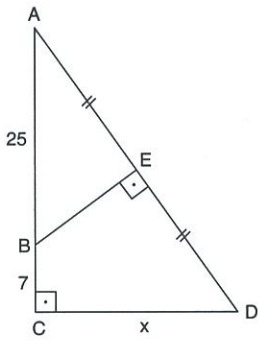


|CF| = |FB|

⇒ x = ?

6

7.



⇒ x = ?

24

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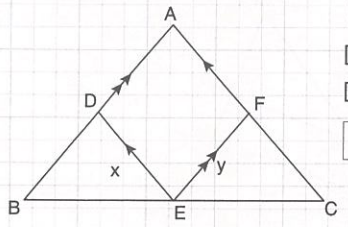
PUZA YAYINLARI

ÖZELLİK | Property 2



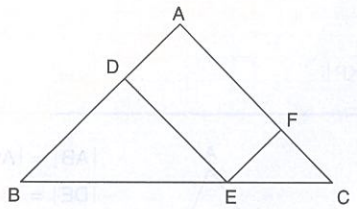
$|AB| = |AC|$

$[EF] \,//\, [AB]$

$[DE] \,//\, [AC]$

$x + y = |AB| = |AC|$

1.



$|AB| = |AC|$

$[AD] \,//\, [EF]$

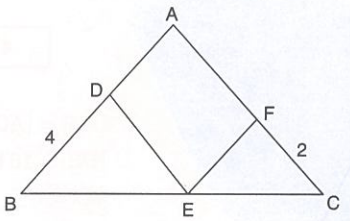
$[DE] \,//\, [AC]$

Ç(ADEF) = 12 br

$\Rightarrow |AC| = ?$

6

2.



ADEF paralelkenar

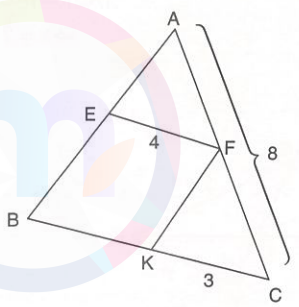
ADEF parallellogram

$|AB| = |AC|$

$\Rightarrow$ Ç(AFED) = ?

12

3.



$|BA| = |BC|$

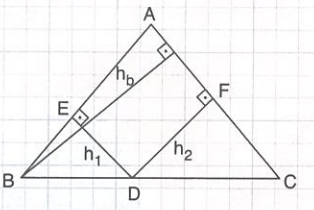
$[EF] \,//\, [BC]$

$[FK] \,//\, [AB]$

$\Rightarrow$ Ç(ABC) = ?

22

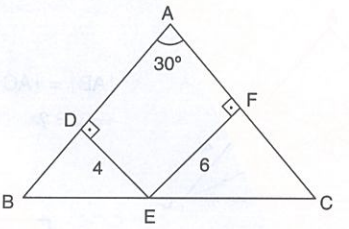
ÖZELLİK | Property 3



$|AB| = |AC|$

$h_1 + h_2 = h_b = h_c$

1.

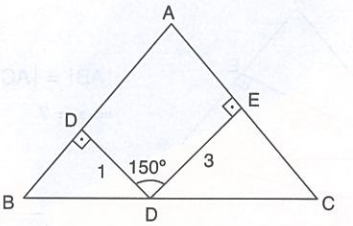


$|AB| = |AC|$

$\Rightarrow |AC| = ?$

20

2.

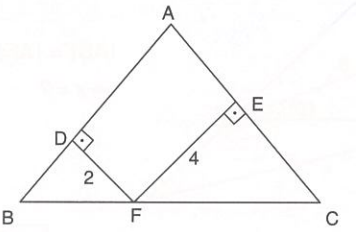


$|AB| = |AC|$

$\Rightarrow |AC| = ?$

8

3.



$|AB| = |AC| = 10$

$\Rightarrow |BC| = ?$

$2\sqrt{10}$

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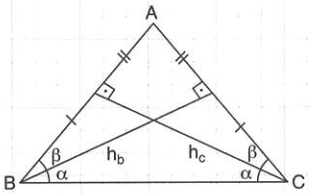
PUZA YAYINLARI
PUZA YAYINLARI

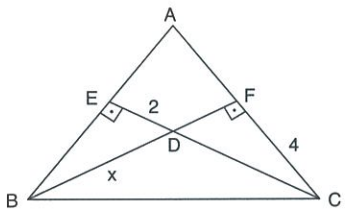
ÖZELLİK | Property 4



$|AB| = |AC|$

$h_b = h_c$

1.

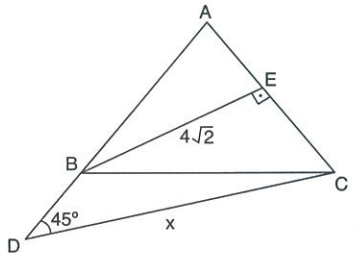


$|AB| = |AC|$

$\Rightarrow x = ?$

$2\sqrt{5}$

2.

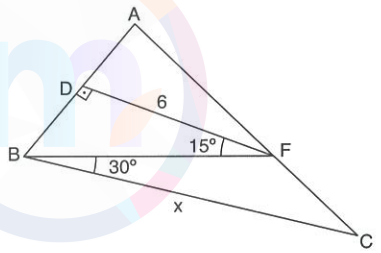


$|AB| = |AC|$

$\Rightarrow x = ?$

8

3.

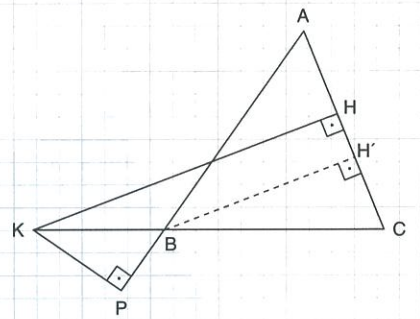


$|AB| = |AF|$

$\Rightarrow x = ?$

$6\sqrt{2}$

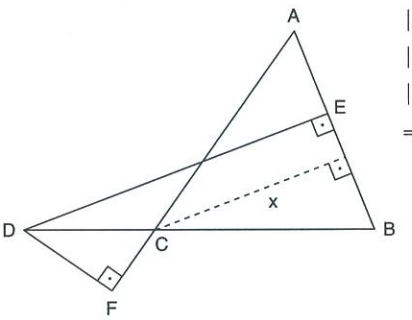
ÖZELLİK | Property 5



$|AB| = |AC|$

$|BH'| = |KH| - |KP|$

1.



$|AB| = |AC|$

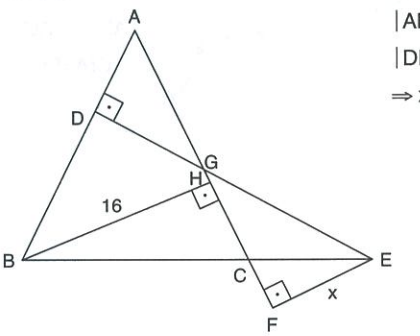
$|DE| = 16$ br

$|DF| = 1$ br

$\Rightarrow x = ?$

15

2.



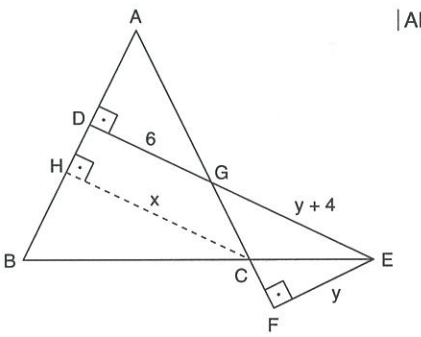
$|AB| = |AC|$

$|DE| = 18$ br

$\Rightarrow x = ?$

2

3.



$|AB| = |AC|$

$\Rightarrow x = ?$

10

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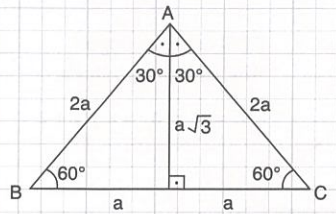
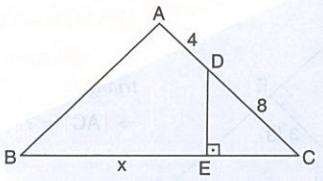
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK | Property 6



ABC eşkenar üçgen
ABC equilateral triangle
|AB| = |AC| = |BC|

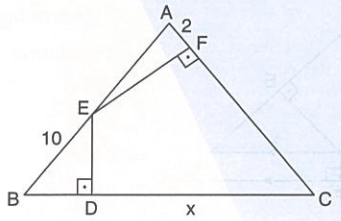
1.



ABC eşkenar üçgen
ABC equilateral triangle
⇒ x = ?

8

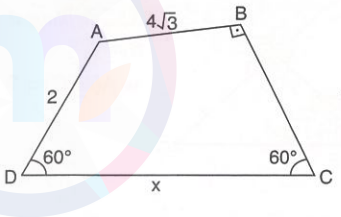
2.



ABC eşkenar üçgen
ABC equilateral triangle
⇒ x = ?

9

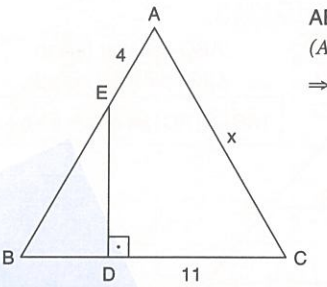
3.



⇒ x = ?

10

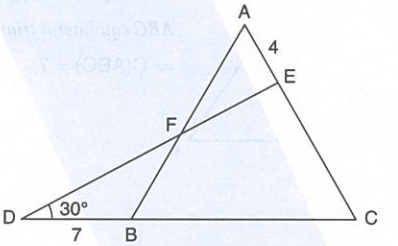
4.



ABC eşkenar üçgen
(ABC equilateral triangle)
⇒ x = ?

18

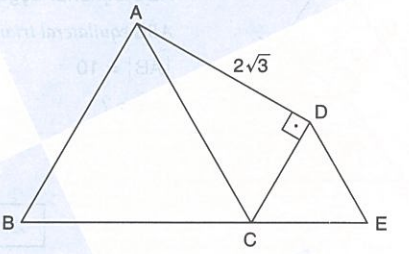
5.



ABC eşkenar üçgen
(ABC equilateral triangle)
⇒ |BC| = ?

15

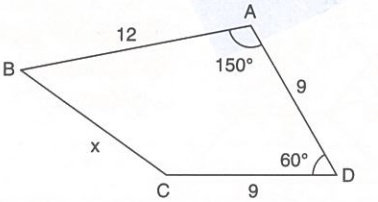
6.



ABC, DEC eşkenar üçgen
(ABC, DEC equilateral triangle)
⇒ |BE| = ?

6

7.



⇒ x = ?

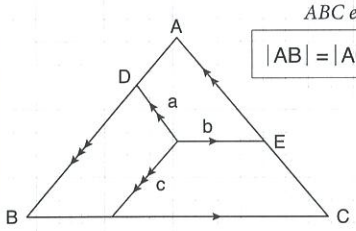
15

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

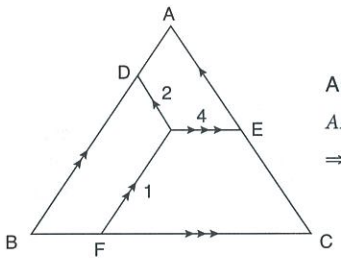
ÖZELLİK | Property 7

ABC eşkenar üçgen
ABC equilateral triangle

$|AB| = |AC| = |BC| = a + b + c$



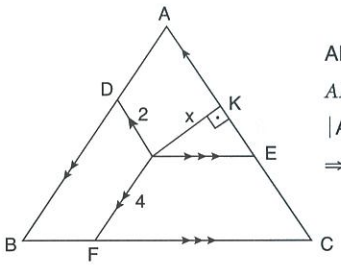
1.



ABC eşkenar üçgen
ABC equilateral triangle
⇒ Ç(ABC) = ?

21

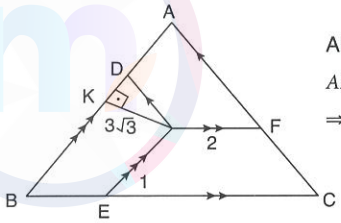
2.



ABC eşkenar üçgen
ABC equilateral triangle
|AB| = 10
⇒ x = ?

$2\sqrt{3}$

3.



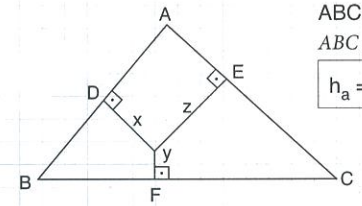
ABC eşkenar üçgen
ABC equilateral triangle
⇒ Ç(ABC) = ?

27

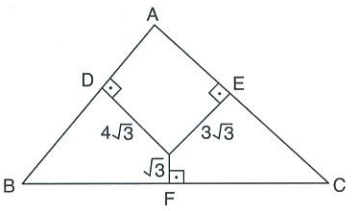
ÖZELLİK | Property 8

ABC eşkenar üçgen
ABC equilateral triangle

$h_a = h_b = h_c = x + y + z$



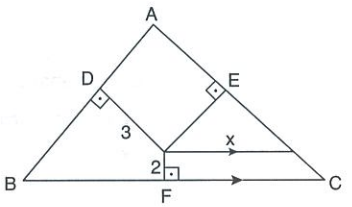
1.



ABC eşkenar üçgen
ABC equilateral triangle
⇒ |AC| = ?

16

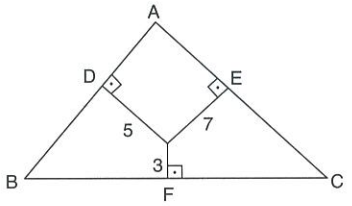
2.



ABC eşkenar üçgen
ABC equilateral triangle
h_a = 8 br
⇒ x = ?

$2\sqrt{3}$

3.



ABC eşkenar üçgen
ABC equilateral triangle
⇒ A(ABC) = ?

$75\sqrt{3}$

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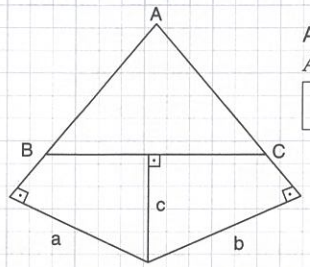
PUZA YAYINLARI
PUZA YAYINLARI

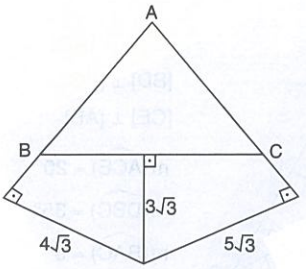
ÖZELLİK | Property 9



ABC eşkenar üçgen
ABC equilateral triangle

$h_a = h_b = h_c = a + b - c$

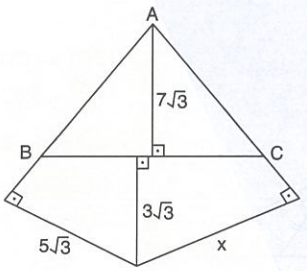
1.



ABC eşkenar üçgen
ABC equilateral triangle
$\Rightarrow |AC| = ?$

12

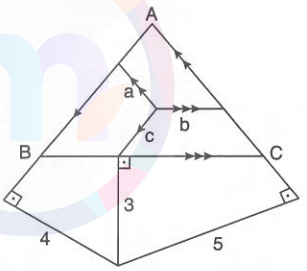
2.



ABC eşkenar üçgen
ABC equilateral triangle
$\Rightarrow x = ?$

5√3

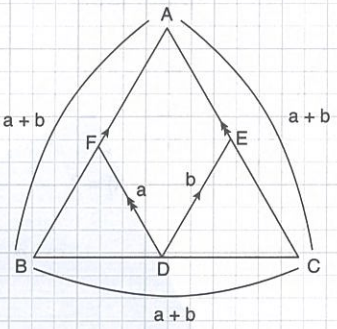
3.



ABC eşkenar üçgen
ABC equilateral triangle
$\Rightarrow a + b + c = ?$

4√3

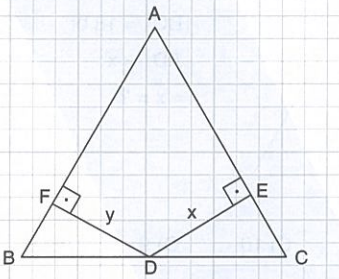
ÖZELLİK | Property 10



ABC eşkenar üçgen
ABC equilateral triangle

[DF] // [AC]
[DE] // [AB]

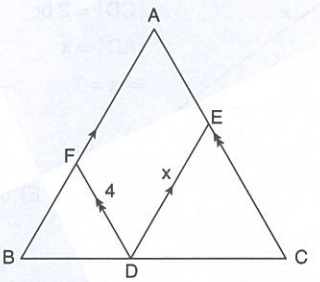
$|AC| = |AB| = |BC| = a + b$



[DF] ⊥ [AB]
[DE] ⊥ [AC]

ABC eşkenar üçgen *(ABC equilateral triangle)*
$h_a = h_b = h_c = x + y$

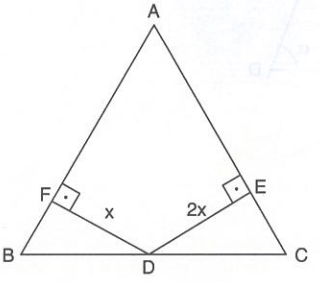
1.



ABC eşkenar üçgen
ABC equilateral triangle
Ç(ABC) = 36 br
$\Rightarrow x = ?$

8

2.

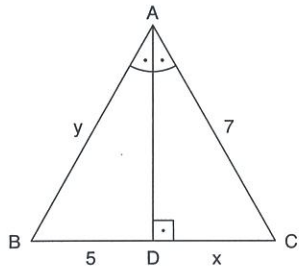


ABC eşkenar üçgen
ABC equilateral triangle
$|AC| = 12$ br
$\Rightarrow x = ?$

2√3

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

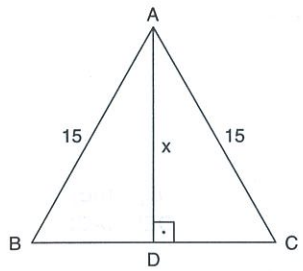
1.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$[AD] \perp [BC]$
$|AC| = 7$ br
$|BD| = 5$ br
$|AB| = y$
$|DC| = x$
$\Rightarrow (y - x) = ?$

A) 1 B) 2 C) 3 D) 4 E) 12

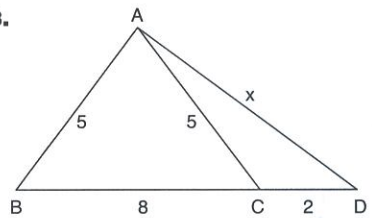
2.



$[AD] \perp [BC]$
$|AB| = |AC| = 15$ br
$|BC| = 18$ br
$|AD| = x$
$\Rightarrow x = ?$

A) 14 B) 12 C) 10 D) 9 E) 8

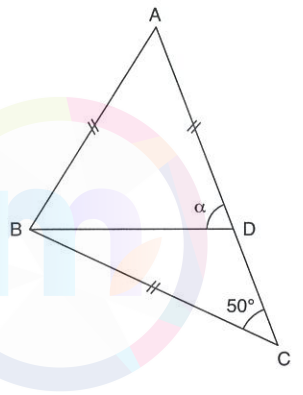
3.



$|AB| = |AC| = 5$ br
$|BC| = 8$ br
$|CD| = 2$ br
$|AD| = x$
$\Rightarrow x = ?$

A) $3\sqrt{5}$ B) $6\sqrt{5}$ C) 6 D) 12 E) $6\sqrt{3}$

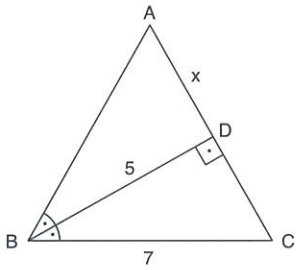
4.



$|AB| = |AD| = |BC|$
$m(\widehat{ACB}) = 50°$
$m(\widehat{ADB}) = \alpha$
$\Rightarrow \alpha = ?$

A) 50 B) 55 C) 60 D) 65 E) 70

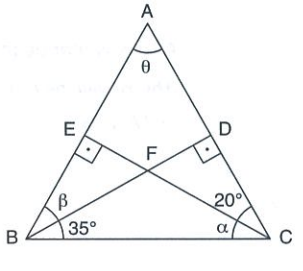
5.



$[BD] \perp [AC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|BD| = 5$ br
$|BC| = 7$ br
$|AD| = x$
$\Rightarrow x = ?$

A) $\sqrt{21}$ B) $6\sqrt{3}$ C) $6\sqrt{2}$ D) $2\sqrt{3}$ E) $2\sqrt{6}$

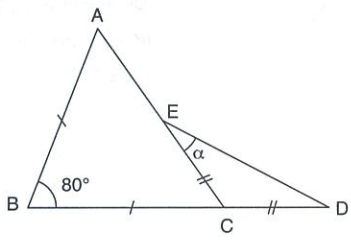
6.



$|AB| = |AC|$
$[BD] \perp [AC]$
$[CE] \perp [AB]$
$m(\widehat{ACE}) = 20°$
$m(\widehat{DBC}) = 35°$
$m(\widehat{BAC}) = \theta$
$m(\widehat{ABD}) = \beta$
$m(\widehat{ECB}) = \alpha$
$\Rightarrow \alpha + \beta + \theta = ?$

A) 125 B) 120 C) 110 D) 115 E) 130

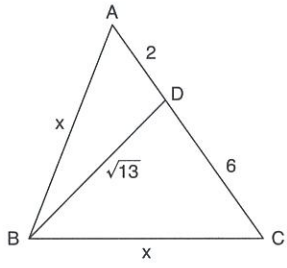
7.



$|EC| = |CD|$
$|AB| = |BC|$
$m(\widehat{ABD}) = 80°$
$m(\widehat{CED}) = \alpha$
$\Rightarrow \alpha = ?$

A) 15 B) 20 C) 25 D) 30 E) 35

8.

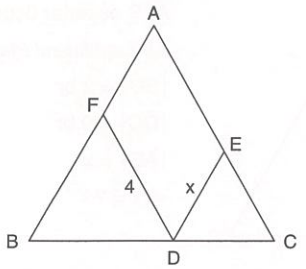


$|AD| = 2$ br
$|DC| = 6$ br
$|BD| = \sqrt{13}$ br
$|AB| = |BC| = x$
$\Rightarrow x = ?$

A) 3 B) 4 C) 5 D) 6 E) 9

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

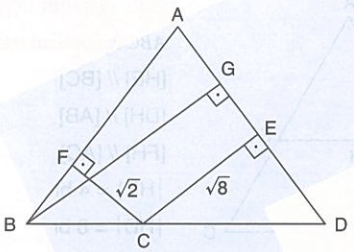
9.



[DF] // [AC]
[DE] // [AB]
|AB| = |AC| = 12 br
|FD| = 4 br
|DE| = x
⇒ x = ?

A) 4 B) 6 C) 8 D) 10 E) 11

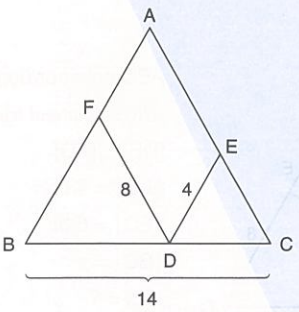
10.



[CF] ⊥ [AB]
[CE] ⊥ [AD]
|AB| = |AD|
[BG] ⊥ [AD]
|CE| = √8 br
|CF| = √2 br
⇒ |BG| = ?

A) √5 B) √6 C) √10 D) 3√2 E) 2√2

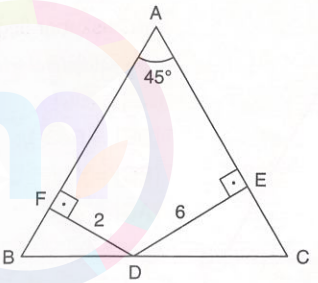
11.



|AB| = |AC|
[FD] // [AC]
[DE] // [AB]
|DE| = 4 br
|FD| = 8 br
|BC| = 14 br
⇒ Ç(ABC) = ?

A) 38 B) 36 C) 32 D) 30 E) 28

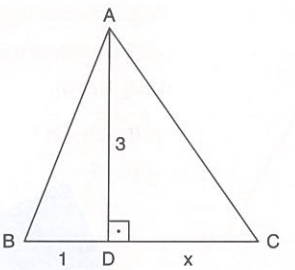
12.



m(BAC) = 45°
[DF] ⊥ [AB]
[DE] ⊥ [AC]
|FD| = 2 br
|DE| = 6 br
|AB| = |AC| = x
⇒ x = ?

A) 6√2 B) 8√2 C) 6 D) 8 E) 10

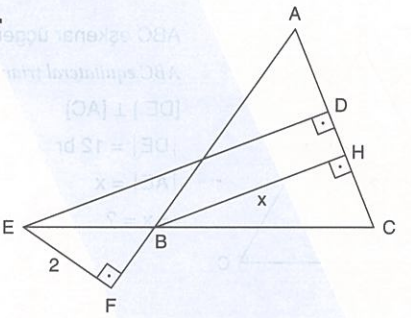
13.



[AD] ⊥ [BC]
|AC| = |BC|
|AD| = 3 br
|DC| = x
⇒ x = ?

A) 4 B) 5 C) 6 D) 7 E) 8

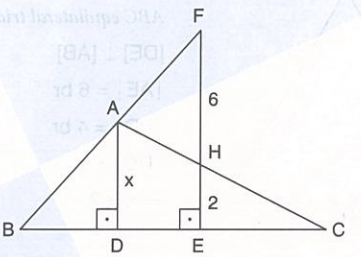
14.



|AB| = |AC|
[ED] ⊥ [AC]
[EF] ⊥ [FA]
[BH] ⊥ [AC]
|ED| = 11 br
|EF| = 2 br
|BH| = x
⇒ x = ?

A) 7 B) 8 C) 9 D) 10 E) 13

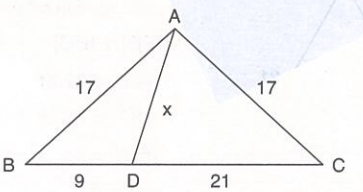
15.



|AB| = |AC|
[AD] ⊥ [BC]
[FE] ⊥ [BC]
|FH| = 6 br
|HE| = 2 br
|AD| = x
⇒ x = ?

A) 3 B) 4 C) 5 D) 6 E) 7

16.

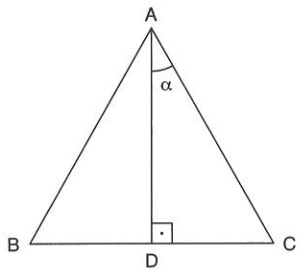


|AB| = 17 br
|AC| = 17 br
|BD| = 9 br
|DC| = 21 br
|AD| = x
⇒ x = ?

A) 6 B) 8 C) 10 D) 15 E) 16

PUZA YAYINLARI

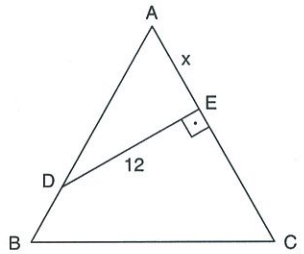
1.



ABC eşkenar üçgen
ABC equilateral triangle
[AD] ⊥ [BC]
$m(\widehat{DAC}) = \alpha$
$\Rightarrow \alpha = ?$

A) 15 B) 30 C) 45 D) 60 E) 75

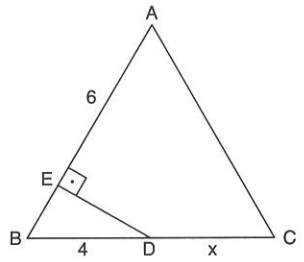
2.



ABC eşkenar üçgen
ABC equilateral triangle
[DE] ⊥ [AC]
|DE| = 12 br
|AE| = x
$\Rightarrow x = ?$

A) $4\sqrt{3}$ B) 6 C) $8\sqrt{3}$ D) $6\sqrt{3}$ E) $4\sqrt{3}$

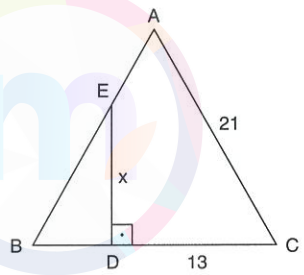
3.



ABC eşkenar üçgen
ABC equilateral triangle
[DE] ⊥ [AB]
|AE| = 6 br
|BD| = 4 br
|DC| = x
$\Rightarrow x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

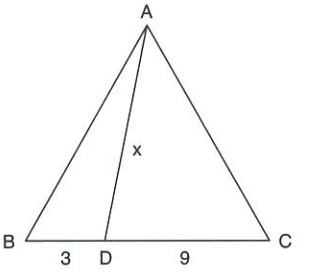
4.



ABC eşkenar üçgen
ABC equilateral triangle
[ED] ⊥ [BC]
|AC| = 21 br
|DC| = 13 br
|ED| = x
$\Rightarrow x = ?$

A) 8 B) 12 C) $8\sqrt{3}$ D) $9\sqrt{3}$ E) $16\sqrt{3}$

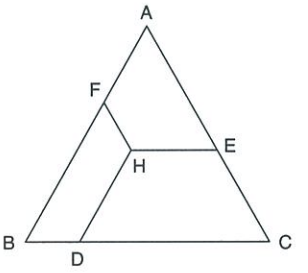
5.



ABC eşkenar üçgen
ABC equilateral triangle
|BD| = 3 br
|DC| = 9 br
|AD| = x
$\Rightarrow x = ?$

A) $\sqrt{13}$ B) $2\sqrt{13}$ C) $3\sqrt{13}$ D) 6 E) $\sqrt{15}$

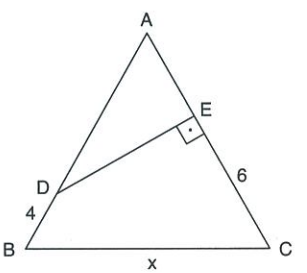
6.



ABC eşkenar üçgen
ABC equilateral triangle
[HE] // [BC]
[DH] // [AB]
[FH] // [AC]
|HE| = 4 br
|HD| = 8 br
|FH| = 2 br
$\Rightarrow$ Ç(ABC) = ?

A) 39 B) 42 C) 44 D) 48 E) 52

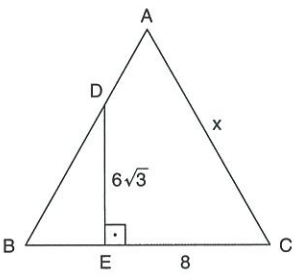
7.



ABC eşkenar üçgen
ABC equilateral triangle
[DE] ⊥ [AC]
|DB| = 4 br
|EC| = 6 br
|BC| = x
$\Rightarrow x = ?$

A) 7 B) 8 C) 9 D) 10 E) 12

8.



ABC eşkenar üçgen
ABC equilateral triangle
[DE] ⊥ [BC]
$|DE| = 6\sqrt{3}$ br
|EC| = 8 br
|AC| = x
$\Rightarrow x = ?$

A) $8\sqrt{3}$ B) $12\sqrt{3}$ C) 12 D) 13 E) 14

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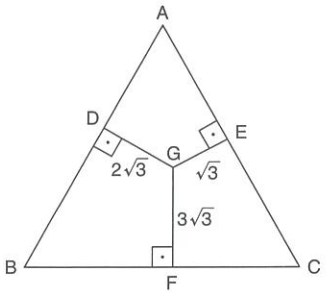
PUZA YAYINLARI
PUZA YAYINLARI

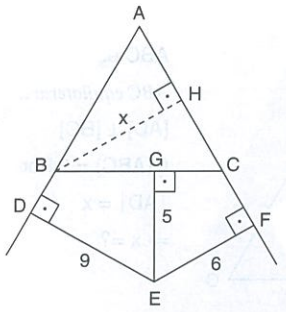
9.



ABC eşkenar üçgen
ABC equilateral triangle
[GE] ⊥ [AC]
[GD] ⊥ [AB]
[GF] ⊥ [BC]
|DG| = $2\sqrt{3}$ br
|GE| = $\sqrt{3}$ br
|GF| = $3\sqrt{3}$ br
⇒ |AB| = ?

A) 6 b) 9 C) 12 D) 14 E) 16

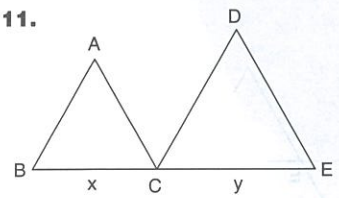
10.



ABC eşkenar üçgen
ABC equilateral triangle
[ED] ⊥ [DA]
[EG] ⊥ [BC]
[EF]⊥ [FA]
[BH] ⊥ [AC]
|DE| = 9 br
|EF| = 6 br
|EG| = 5 br
|BH| = x
⇒ x = ?

A) 15 B) 12 C) 10 D) 9 E) 6

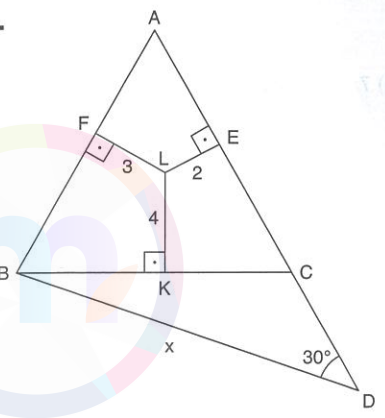
11.



ABC DCE eşkenar üçgen
ABC DCE equilateral triangle
|BC| = x
|CE| = y
x + y = 12 br
⇒ Ç(ABC) + Ç(DEC) = ?

A) 24 B) 27 C) 30 D) 33 E) 36

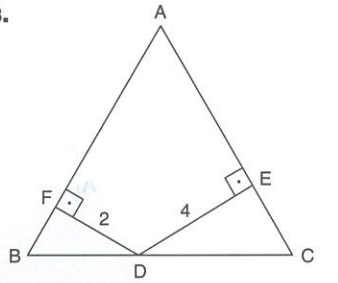
12.



ABC eşkenar üçgen
ABC equilateral triangle
[LE] ⊥ [AC]
[LF]| ⊥ [AB]
[LK] ⊥ [BC]
|LE| = 2 br
|LF| = 3 br
|LK| = 4 br
m(BDA) = 30°
|BD| = x
⇒ x = ?

A) 9 B) 18 C) $9\sqrt{3}$ D) $18\sqrt{3}$ E) 12

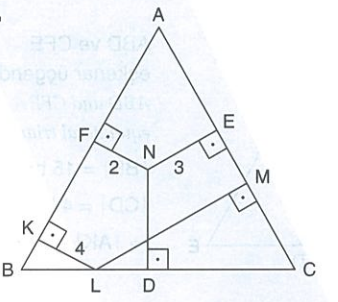
13.



ABC eşkenar üçgen
ABC equilateral triangle
[DF] ⊥ [AB]
[DE] ⊥ [AC]
|DF|= 2 br
|DE| = 4 br
⇒ |AC| = ?

A) $2\sqrt{3}$ B) 6 C) $4\sqrt{3}$ D) $6\sqrt{3}$ E) 12

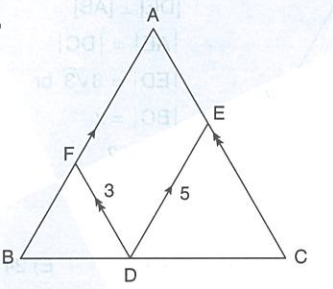
14.



ABC eşkenar üçgen
ABC equilateral triangle
[NE] ⊥ [AC]
[NF] ⊥ [AB]
[ND] ⊥ [BC]
[KL] ⊥ [AB]
[LM] ⊥ [AC]
|LM| = 7 br
|KL| = 4 br
|NF| = 2 br
|NE| = 3 br
⇒ |ND| = ?

A) 3 B) 4 C) 6 D) 7 E) 2

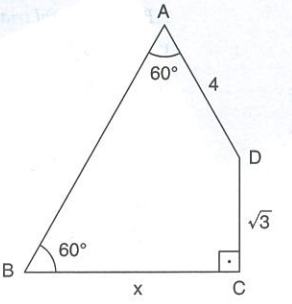
15.



ABC eşkenar üçgen
ABC equilateral triangle
[DE] // [AB]
[DF] // [AC]
|FD| = 3 br
|DE| = 5 br
⇒ Ç(ABC) = ?

A) 8 B) 16 C) 24 D) 32 E) 36

16.



m(BAD) = m(ABC) = 60°
[DC] ⊥ [BC]
|AD| = 4 br
|DC| = $\sqrt{3}$ br
|BC| = x
⇒ x = ?

A) 3 B) 4 C) 5 D) 6 E) 7

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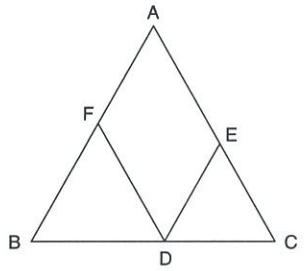
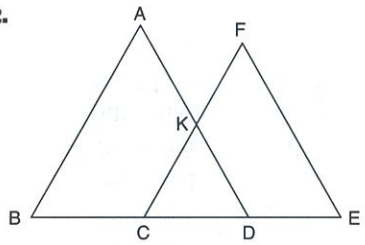
1.



ABC, BFD, EDC eşkenar üçgendir.
ABC, BFD, EDC equilateral triangle
$|BC| = 16$ br
$\Rightarrow$ Ç(FDEA) = ?

A) 16 B) 24 C) 32 D) 48 E) 52

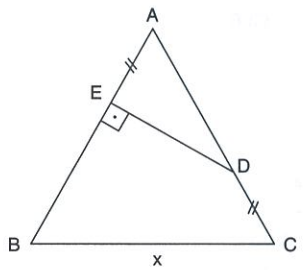
2.



ABD ve CFE eşkenar üçgendir.
ABD and CFE equilateral triangle
$|BE| = 15$ br
$|CD| = 4$ br
$\Rightarrow |AK| + |KF| = ?$

A) 10 B) 11 C) 9 D) 8 E) 7

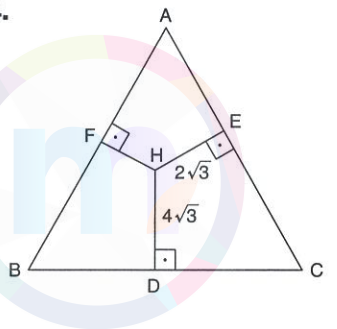
3.



ABC eşkenar üçgen
ABC equilateral triangle
$[DE] \perp [AB]$
$|AE| = |DC|$
$|ED| = 8\sqrt{3}$ br
$|BC| = x$
$\Rightarrow x = ?$

A) 8 B) 12 C) 16 D) 21 E) 24

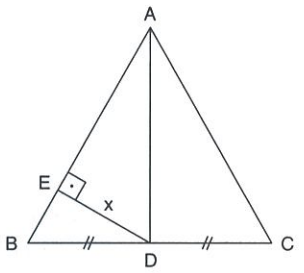
4.



ABC eşkenar üçgen
ABC equilateral triangle
$[HE] \perp [AC]$
$[HF] \perp [AB]$
$[HD] \perp [BC]$
$|HE| = 2\sqrt{3}$ br
$|HD| = 4\sqrt{3}$ br
$|AC| = 16$ br
$\Rightarrow |FH| = ?$

A) $2\sqrt{3}$ B) $\sqrt{3}$ C) $\sqrt{6}$ D) $4\sqrt{3}$ E) $2\sqrt{6}$

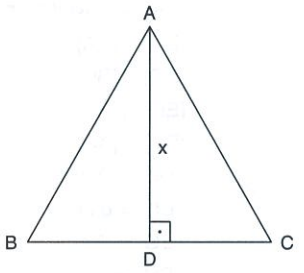
5.



ABC eşkenar üçgen
ABC equilateral triangle
$[DE] \perp [AB]$
$|BD| = |DC|$
$|BC| = 6\sqrt{3}$ br
$|DE| = x$
$\Rightarrow x = ?$

A) $\frac{1}{2}$ B) $\frac{5}{2}$ C) 3 D) 6 E) $\frac{9}{2}$

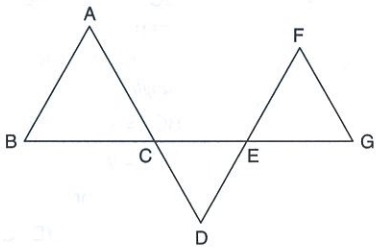
6.



ABC eşkenar üçgen
ABC equilateral triangle
$[AD] \perp [BC]$
Ç(ABC) = 24 br
$|AD| = x$
$\Rightarrow x = ?$

A) 4 B) $4\sqrt{3}$ C) 8 D) $8\sqrt{3}$ E) 6

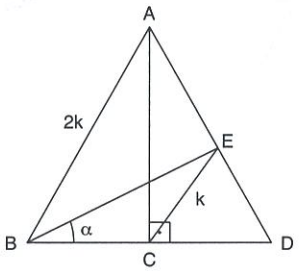
7.



ABC, CDE, EFG eşkenar üçgendir.
ABC, CDE, EFG equilateral triangle
Ç(ABC) + Ç(DEC) + Ç(EFG) = 24 br
$\Rightarrow |BG| = ?$

A) 6 B) 7 C) 8 D) 9 E) 12

8.



ABD eşkenar üçgen
ABC equilateral triangle
$[AC] \perp [BD]$
$2|CE| = |AB| = 2k$
$m(\widehat{EBD}) = \alpha$
$\Rightarrow \alpha = ?$

A) 15 B) 25 C) 30 D) 35 E) 40

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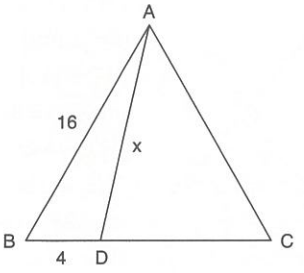
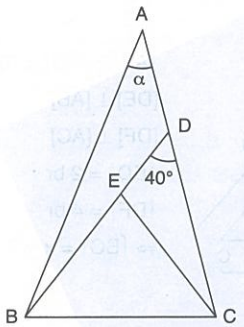
9.



ABC eşkenar üçgen
ABC equilateral triangle
$|AB| = 16$ br
$|BD| = 4$ br
$|AD| = x$
$\Rightarrow x = ?$

A) $\sqrt{10}$ B) $2\sqrt{11}$ C) $\sqrt{11}$ D) $\sqrt{13}$ E) $4\sqrt{13}$

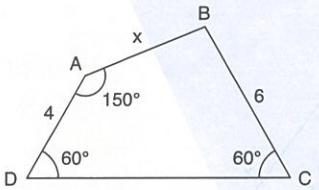
10.



BEC eşkenar üçgen
BEC equilateral triangle
$|AB| = |AC|$
$m(\widehat{BDC}) = 40°$
$m(\widehat{BAC}) = \alpha$
$\Rightarrow \alpha = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

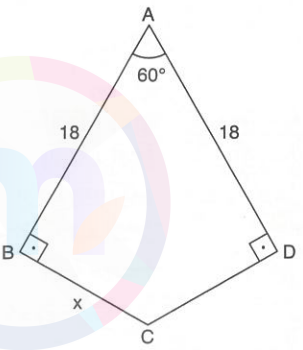
11.



$m(\widehat{ADC}) = 60°$
$m(\widehat{DCB}) = 60°$
$m(\widehat{DAB}) = 150°$
$|AD| = 4$ br
$|BC| = 6$ br
$|AB| = x$
$\Rightarrow x = ?$

A) 2 B) $\sqrt{3}$ C) $2\sqrt{3}$ D) $\sqrt{2}$ E) $2\sqrt{2}$

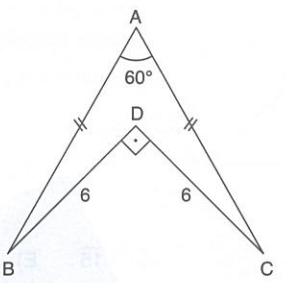
12.



$m(\widehat{BAD}) = 60°$
$[AB] \perp [BC]$
$[AD] \perp [BC]$
$[AD] \perp [DC]$
$|AB| = |AD| = 18$ br
$|BC| = x$
$\Rightarrow x = ?$

A) 8 B) 12 C) 6 D) $6\sqrt{3}$ E) $6\sqrt{2}$

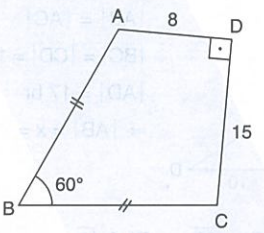
13.



$m(\widehat{BAC}) = 60°$
$[BD] \perp [DC]$
$|BD| = |DC| = 6$ br
$|AB| = |AC| = x$
$\Rightarrow x = ?$

A) 6 B) $6\sqrt{2}$ C) 8 D) 10 E) 12

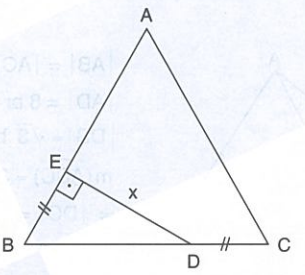
14.



$m(\widehat{ABC}) = 60°$
$[AD] \perp [DC]$
$|AD| = 8$ br
$|DC| = 15$ br
$|AB| = |BC| = x$
$\Rightarrow x = ?$

A) $4\sqrt{3}$ B) 15 C) 16 D) 17 E) 25

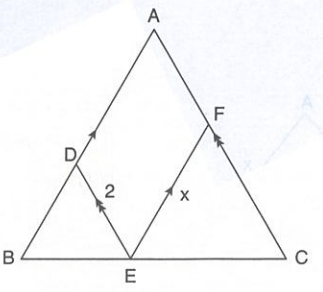
15.



ABC eşkenar üçgen
ABC equilateral triangle
$[DE] \perp [AB]$
$|EB| = |DC|$
$|AC| = 6$ br
$|ED| = x$
$\Rightarrow x = ?$

A) 2 B) 4 C) $2\sqrt{3}$ D) $4\sqrt{3}$ E) 5

16.



ABC eşkenar üçgen
ABC equilateral triangle
$[EF] \,//\, [AB]$
$[DE] \,//\, [AC]$
$|DE| = 2$ br
$Ç(ABC) = 18$ br
$|EF| = x$
$\Rightarrow x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

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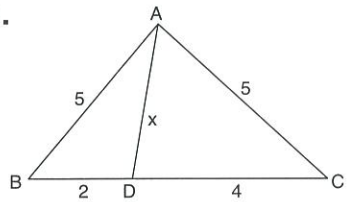
PUZA YAYINLARI
PUZA YAYINLARI

1.



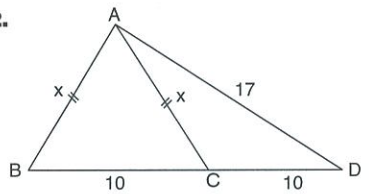
$|AB| = |AC| = 5$ br

$2|BD| = |DC| = 4$ br

$\Rightarrow |AD| = x = ?$

A) 5 B) $\sqrt{17}$ C) 4 D) $\sqrt{15}$ E) $\sqrt{10}$

2.



$|AB| = |AC|$

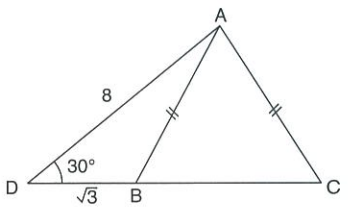
$|BC| = |CD| = 10$ br

$|AD| = 17$ br

$\Rightarrow |AB| = x = ?$

A) 12 B) 10 C) $\sqrt{89}$ D) $6\sqrt{2}$ E) $3\sqrt{6}$

3.



$|AB| = |AC|$

$|AD| = 8$ br

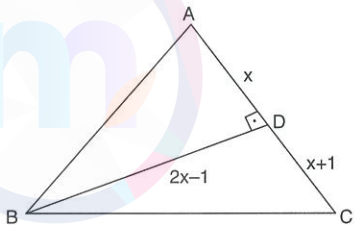
$|DB| = \sqrt{3}$ br

$m(\widehat{ADC}) = 30°$

$\Rightarrow |DC| = ?$

A) $\sqrt{3}$ B) 4 C) $4\sqrt{3}$ D) 8 E) $7\sqrt{3}$

4.



$[BD] \perp [AC]$

$|AB| = |AC|$

$|AD| = x$

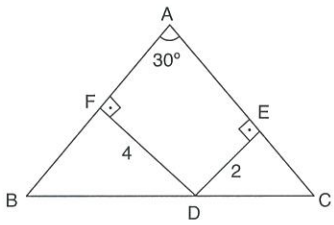
$|DC| = x + 1$

$|BD| = 2x - 1$

$\Rightarrow x = ?$

A) 3 B) 4 C) 6 D) 7 E) 8

5.



$|AB| = |AC|$

$[DF] \perp [AB]$

$[DE] \perp [AC]$

$m(\widehat{BAC}) = 30°$

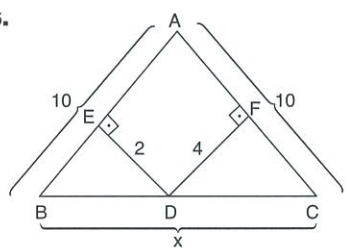
$|FD| = 4$ br

$|DE| = 2$ br

$\Rightarrow |AB| = x = ?$

A) 12 B) $6\sqrt{3}$ C) 6 D) 4 E) 3

6.



$|AB| = |AC| = 10$ br

$[DE] \perp [AB]$

$[DF] \perp [AC]$

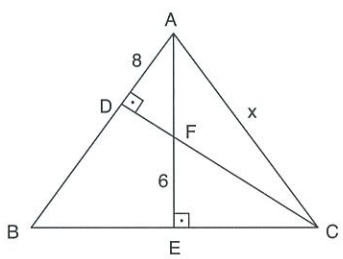
$|ED| = 2$ br

$|DF| = 4$ br

$\Rightarrow |BC| = x = ?$

A) $2\sqrt{10}$ B) 6 C) $6\sqrt{2}$ D) 8 E) 10

7.



$|AB| = |BC|$

$|AD| = 8$ br

$|EF| = 6$ br

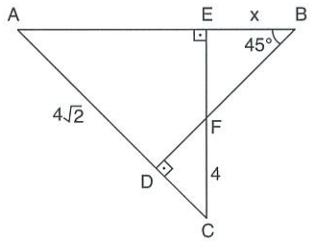
$[CD] \perp [AB]$

$[AE] \perp [BC]$

$\Rightarrow |AC| = x = ?$

A) $16\sqrt{5}$ B) $8\sqrt{5}$ C) 10 D) 8 E) 6

8.



$[CE] \perp [AB]$

$[BD] \perp [AC]$

$m(\widehat{ABD}) = 45°$

$|AD| = 4\sqrt{2}$ br

$|FC| = 4$ br

$\Rightarrow |EB| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 6

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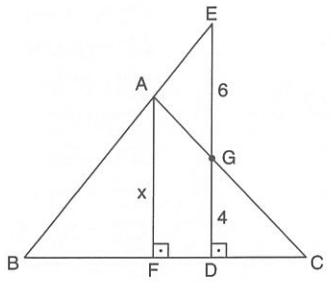
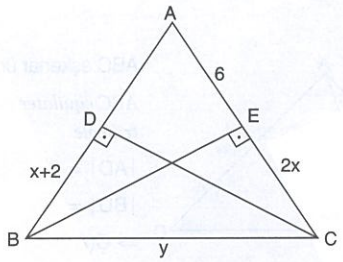
9.



$|AB| = |AC|$
$[AF] \perp [BC]$
$[ED] \perp [BC]$
$|EG| = 6$ br
$|GD| = 4$ br
$\Rightarrow |AF| = x = ?$

A) 4 B) 6 C) 7 D) 8 E) 10

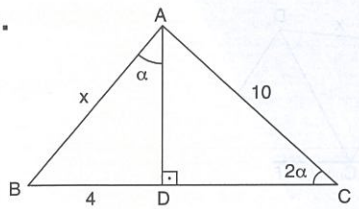
10.



$|AB| = |AC|$
$[CD] \perp [AB]$
$[BE] \perp [AC]$
$|AE| = 6$ br
$|EC| = 2x$
$|BD| = x + 2$
$\Rightarrow |BC| = y = ?$

A) $2\sqrt{5}$ B) $4\sqrt{3}$ C) $4\sqrt{5}$ D) $8\sqrt{3}$ E) $8\sqrt{5}$

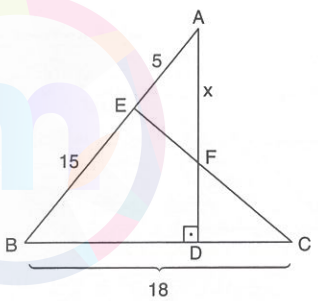
11.



$[AD] \perp [BC]$
$2m(\widehat{BAD}) = m(\widehat{ACB})$
$|AC| = 10$ br
$|BD| = 4$ br
$\Rightarrow |AB| = x = ?$

A) 20 B) $10\sqrt{2}$ C) 10 D) $8\sqrt{5}$ E) $4\sqrt{5}$

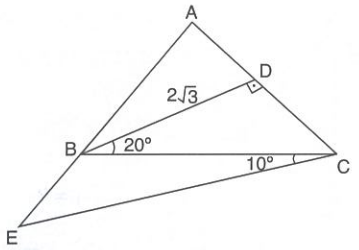
12.



$[AD] \perp [BC]$
$|EB| = |EC|$
$|FD| = 8$ br
$|AE| = 5$ br
$|EB| = 15$ br
$|BC| = 18$ br
$\Rightarrow |AF| = x = ?$

A) 3 B) 4 C) 6 D) 8 E) 10

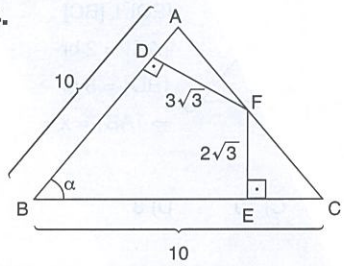
13.



$[BD] \perp [AC]$
$|AB| = |AC|$
$m(\widehat{DBC}) = 20°$
$m(\widehat{BCE}) = 10°$
$\Rightarrow |EC| = ?$

A) 2 B) $\sqrt{6}$ C) $2\sqrt{3}$ D) 4 E) $4\sqrt{3}$

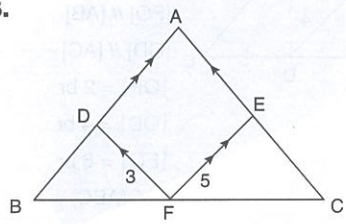
14.



$[DF] \perp [AB]$
$[EF] \perp [BC]$
$|AB| = |BC| = 10$ br
$|DF| = 3\sqrt{3}$ br
$|FE| = 2\sqrt{3}$ br
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 15 B) 30 C) 45 D) 60 E) 90

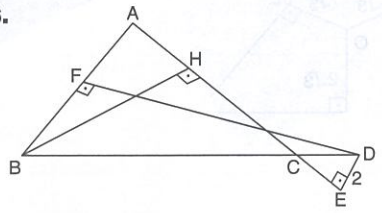
15.



$|AB| = |AC|$
$[DF] // [AC]$
$[FE] // [AB]$
$|DF| = 3$ br
$|FE| = 5$ br
$\Rightarrow |BD| + |EC| = ?$

A) $32\sqrt{2}$ B) 32 C) 8 D) 16 E) $8\sqrt{2}$

16.



$[BH] \perp [AE]$
$[DF] \perp [AB]$
$[AE] \perp [DE]$
$|AB| = |AC|$
$|FD| = 6$ br
$|ED| = 2$ br
$\Rightarrow |BH| = ?$

A) 24 B) 16 C) 12 D) 8 E) 4

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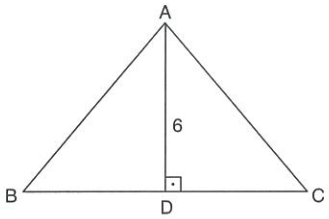
PUZA YAYINLARI

1.



ABC eşkenar üçgen

ABC equilateral triangle

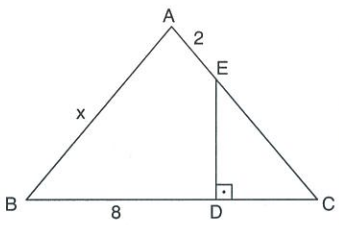
[AD] ⊥ [BC]

|AD| = 6 br

⇒ |BC| = ?

A) $12\sqrt{3}$ B) 12 C) $4\sqrt{3}$ D) 4 E) $2\sqrt{3}$

2.



ABC eşkenar üçgen

ABC equilateral triangle

[ED] ⊥ [BC]

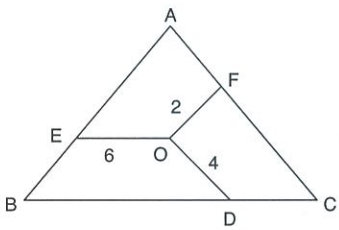
|AE| = 2 br

|BD| = 8 br

⇒ |AB| = x = ?

A) 14 B) 12 C) 10 D) 8 E) 6

3.



ABC eşkenar üçgen

ABC equilateral triangle

[EO] // [BC]

[FO] // [AB]

[OD] // [AC]

|OF| = 2 br

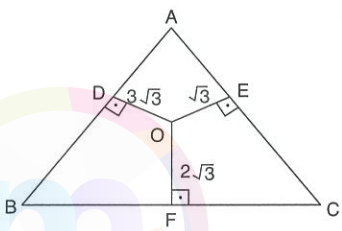
|OD| = 4 br

|EO| = 6 br

⇒ Ç(ABC) = ?

A) $\sqrt{37}$ B) 12 C) 7 D) $2\sqrt{37}$ E) 36

4.



ABC eşkenar üçgen

ABC equilateral triangle

[OE] ⊥ [AC]

[OF] ⊥ [BC]

[OD] ⊥ [AB]

|OD| = $3\sqrt{3}$ br

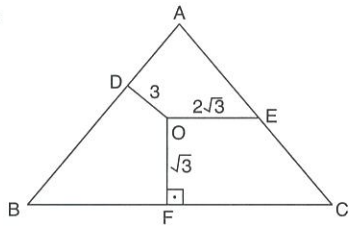
|OE| = $\sqrt{3}$ br

|OF| = $2\sqrt{3}$ br

⇒ Ç(ABC) = ?

A) $72\sqrt{3}$ B) 72 C) $36\sqrt{3}$ D) 36 E) $18\sqrt{3}$

5.



ABC eşkenar üçgen

ABC equilateral triangle

[OE] // [BC]

[OD] // [AC]

[OF] ⊥ [BC]

|OD| = 3 br

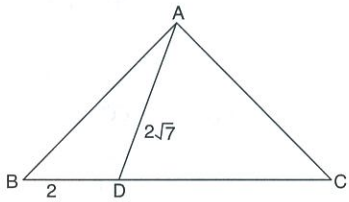
|OE| = $2\sqrt{3}$ br

|OF| = $\sqrt{3}$ br

⇒ Ç(ABC) = ?

A) $5+2\sqrt{3}$ B) $15+6\sqrt{3}$ C) 14 D) $10+4\sqrt{3}$ E) 36

6.



ABC eşkenar üçgen

ABC equilateral triangle

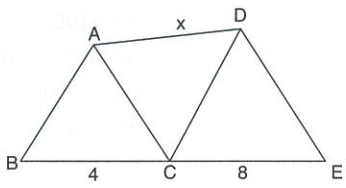
|AD| = $2\sqrt{7}$ br

|BD| = 2 br

⇒ Ç(ABC) = ?

A) 4 B) 6 C) 12 D) 18 E) 36

7.



ABC, CDE eşkenar üçgen

ABC, CDE equilateral triangle

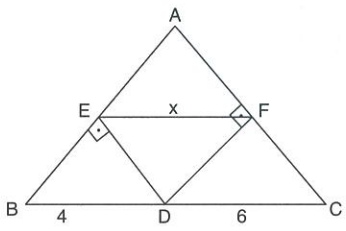
|BC| = 4 br

|CE| = 8 br

⇒ |AD| = x = ?

A) 4 B) 6 C) $4\sqrt{3}$ D) 8 E) $8\sqrt{3}$

8.



ABC eşkenar üçgen

ABC equilateral triangle

[DE] ⊥ [AB]

[DF] ⊥ [AC]

|BD| = 4 br

|DC| = 6 br

⇒ |EF| = x = ?

A) $4\sqrt{3}$ B) $\sqrt{47}$ C) 7 D) $\sqrt{57}$ E) 8

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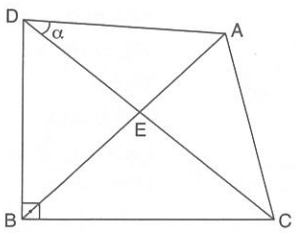
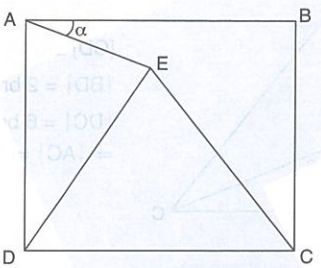
9.



ABC eşkenar üçgen
ABC equilateral triangle
DBC dik üçgen
$|DB| = |BC|$
$[DB] \perp [BC]$
$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 15 B) 30 C) 32,5 D) 45 E) 67,5

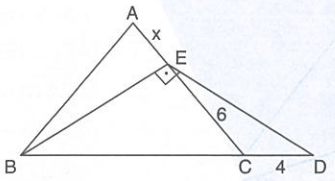
10.



ABCD kare
ABCD square
EDC eşkenar üçgen
EDC equilateral triangle
$\Rightarrow m(\widehat{BAE}) = \alpha = ?$

A) 15 B) 30 C) 32,5 D) 45 E) 67,5

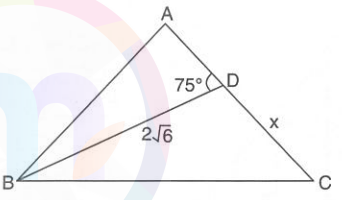
11.



ABC eşkenar üçgen
ABC equilateral triangle
$[BE] \perp [ED]$
$|EC| = 6$ br
$|CD| = 4$ br
$\Rightarrow |AE| = x = ?$

A) 6 B) 4 C) 3 D) $\frac{6}{5}$ E) $\frac{6}{7}$

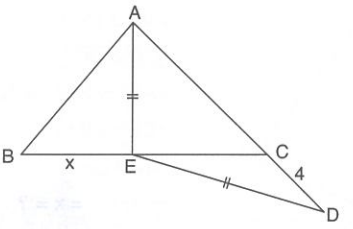
12.



ABC eşkenar üçgen
ABC equilateral triangle
$|BD| = 2\sqrt{6}$ br
$m(\widehat{ADB}) = 75°$
$\Rightarrow |DC| = x = ?$

A) $\sqrt{3}-1$ B) $\sqrt{3}$ C) $2\sqrt{3}-2$ D) $2\sqrt{3}$ E) $2\sqrt{3}+2$

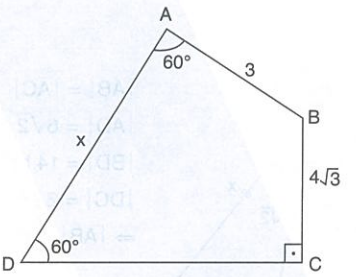
13.



ABC eşkenar üçgen
ABC equilateral triangle
$|AE| = |ED|$
$|CD| = 4$ br
$\Rightarrow |BE| = x = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) $4\sqrt{6}$

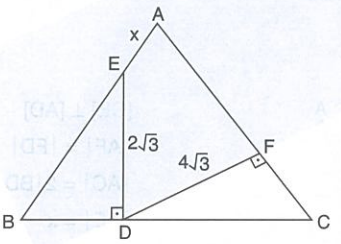
14.



$m(\widehat{BAD}) = 60°$
$m(\widehat{ADC}) = 60°$
$[BC] \perp [DC]$
$|AB| = 3$ br
$|BC| = 4\sqrt{3}$ br
$\Rightarrow |AD| = x = ?$

A) 3 B) 4 C) 7 D) 11 E) 14

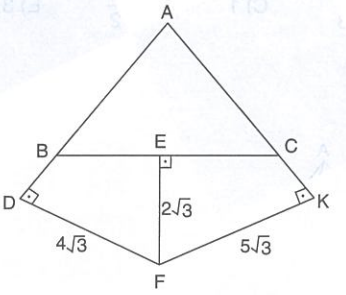
15.



ABC eşkenar üçgen
ABC equilateral triangle
$[ED] \perp [BC]$
$[DF] \perp [AC]$
$|ED| = 2\sqrt{3}$ br
$|DF| = 4\sqrt{3}$ br
$\Rightarrow |EA| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

16.



ABC eşkenar üçgen
ABC equilateral triangle
$[FD] \perp [AB]$
$[FE] \perp [BC]$
$[FK] \perp [KA]$
$|EF| = 2\sqrt{3}$ br
$|FK| = 5\sqrt{3}$ br
$|DF| = 4\sqrt{3}$ br
$\Rightarrow Ç(ABC) = ?$

A) 11 B) $11\sqrt{3}$ C) 22 D) 33 E) 42

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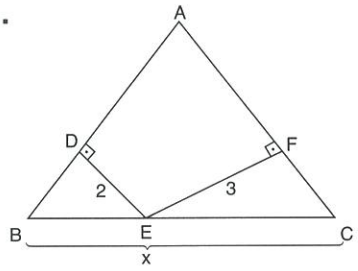
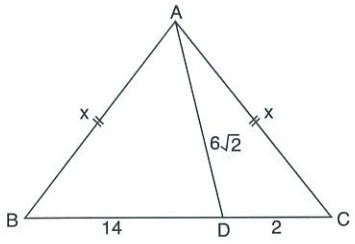
1.



$[DE] \perp [AB]$
$[EF] \perp [AC]$
$|AB| = |AC| = 13$ br
$|DE| = 2$ br
$|EF| = 3$ br
$\Rightarrow |BC| = x = ?$

A) $\sqrt{13}$ B) $2\sqrt{6}$ C) 5 D) $\sqrt{20}$ E) $\sqrt{26}$

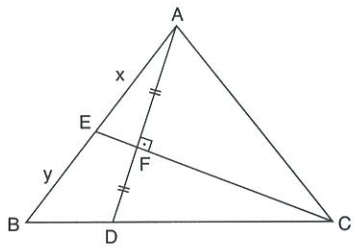
2.



$|AB| = |AC|$
$|AD| = 6\sqrt{2}$ br
$|BD| = 14$ br
$|DC| = 2$ br
$\Rightarrow |AB| = x = ?$

A) 16 B) 12 C) 10 D) 8 E) 6

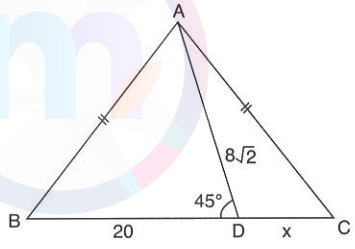
3.



$[CE] \perp [AD]$
$|AF| = |FD|$
$|AC| = 2|BD|$
$|AE| = x$
$|BE| = y$
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) 1 D) $\frac{3}{2}$ E) 3

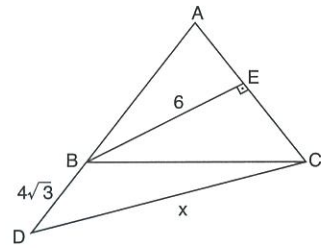
4.



$|AB| = |AC|$
$|AD| = 8\sqrt{2}$ br
$|BD| = 20$ br
$m(\widehat{ADB}) = 45°$
$\Rightarrow |DC| = x = ?$

A) 4 B) 6 C) 10 D) 12 E) 20

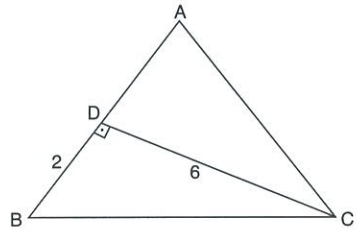
5.



ABC eşkenar üçgen
ABC equilateral triangle
$[BE] \perp [AC]$
$|BD| = 4\sqrt{3}$ br
$|BE| = 6$ br
$\Rightarrow |DC| = x = ?$

A) 14 B) 20 C) 15 D) 12 E) 10

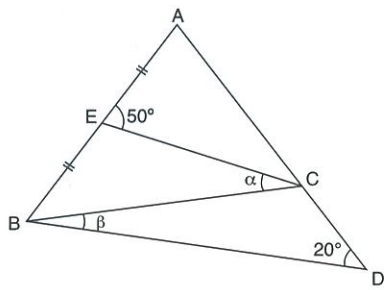
6.



$|AB| = |AC|$
$[CD] \perp [AB]$
$|BD| = 2$ br
$|DC| = 6$ br
$\Rightarrow |AC| = ?$

A) $15\sqrt{2}$ B) 15 C) $10\sqrt{2}$ D) 10 E) $8\sqrt{2}$

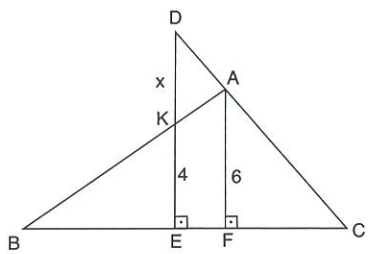
7.



$|AB| = |AC|$
$|AE| = |EB|$
$m(\widehat{AEC}) = 50°$
$m(\widehat{ADB}) = 20°$
$m(\widehat{CBD}) = \beta$
$m(\widehat{ECB}) = \alpha$
$\Rightarrow \alpha + \beta = ?$

A) 10 B) 20 C) 30 D) 50 E) 70

8.



$|AB| = |AC|$
$[AF] \perp [BC]$
$[DE] \perp [BC]$
$|AF| = 6$ br
$|KE| = 4$ br
$\Rightarrow |DK| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 12

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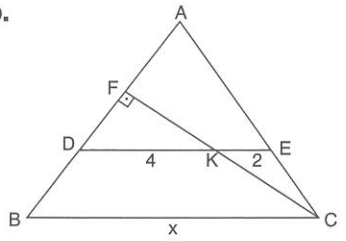
PUZA YAYINLARI
PUZA YAYINLARI

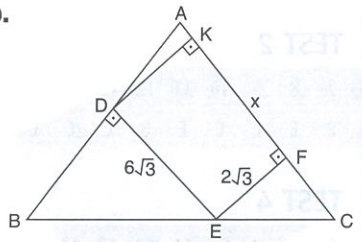
9.



ABC eşkenar üçgen
ABC equilateral triangle
[DE] // [BC]
[CF] ⊥ [AB]
2|KE| = |DK| = 4 br
⇒ |BC| = x = ?

A) 12 B) 10 C) 8 D) 6 E) 4

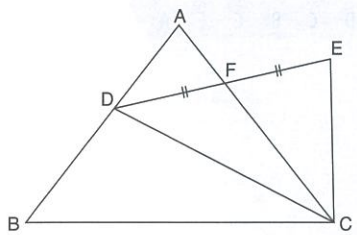
10.



ABC eşkenar üçgen
ABC equilateral triangle
[ED] ⊥ [AB]
[EF] ⊥ [AC]
[DK] ⊥ [AC]
|DE| = 6√3 br
|EF| = 2√3 br
⇒ |KF| = x = ?

A) 5 B) 6 C) 7 D) 8 E) 9

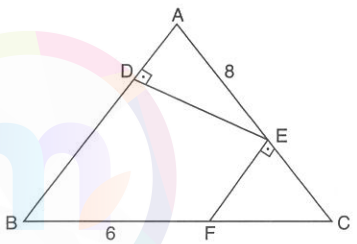
11.



ABC, DEC eşkenar üçgen
ABC, DEC equilateral triangle
|DF| = |FE|
$\Rightarrow \frac{|BD|}{|FC|} = ?$

A) $\frac{2}{3}$ B) $\frac{6}{5}$ C) $\frac{5}{6}$ D) $\frac{3}{2}$ E) $\frac{5}{3}$

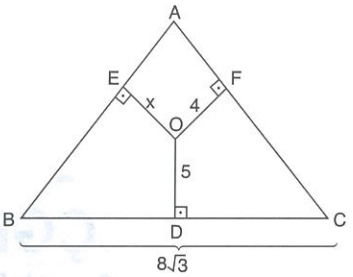
12.



ABC eşkenar üçgen
ABC equilateral triangle
[FE] ⊥ [AC]
[ED] ⊥ [AB]
|AE| = 8 br
|BF| = 6 br
⇒ Ç(DEFB) = ?

A) $6+7\sqrt{3}$ B) $6(1+2\sqrt{3})$ C) $6(2+\sqrt{3})$
D) $12(1+\sqrt{3})$ E) $36\sqrt{3}$

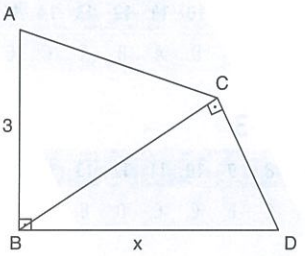
13.



ABC eşkenar üçgen
ABC equilateral triangle
[OE] ⊥ [AB]
[OF] ⊥ [AC]
[OD] ⊥ [BC]
|OF| = 4 br
|OD| = 5 br
|BC| = 8√3 br
⇒ |OE| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

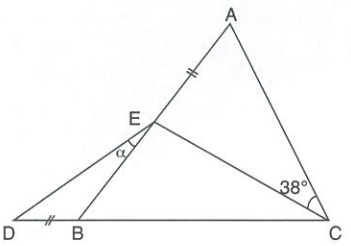
14.



ABC eşkenar üçgen
ABC equilateral triangle
[AB] ⊥ [BD]
[BC] ⊥ [CD]
|AB| = 3 br
⇒ |BD| = x = ?

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 8

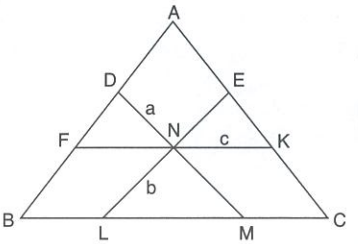
15.



ABC eşkenar üçgen
ABC equilateral triangle
|AE| = |DB|
$m(\widehat{ACE}) = 38°$
$\Rightarrow m(\widehat{DEB}) = \alpha = ?$

A) 19 B) 22 C) 38 D) 54 E) 56

16.



ABC eşkenar üçgen
ABC equilateral triangle
Ç(ABC) = 36 br
[EL] // [AB]
[FK] // [BC]
[DM] // [AC]
|DN| = a
|LN| = b
|KN| = c
⇒ a + b + c = ?

A) 6 B) $6\sqrt{3}$ C) 12 D) 18 E) 36

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PUZA YAYINLARI
PUZA YAYINLARI

İKİZKENAR-EŞKENAR ÜÇGEN
Yanıt Anahtarı

ISOSCELES-EQUILATERAL TRIANGLE
Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	B	A	D	E	A	C	C	C	D	A	B	A	C	C	C

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	A	B	C	C	B	B	E	C	C	E	B	C	C	C	C

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	E	A	E	B	C	C	E	C	C	D	B	D	C	D

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	E	E	A	A	B	B	C	C	E	D	D	D	C	E

TEST 5

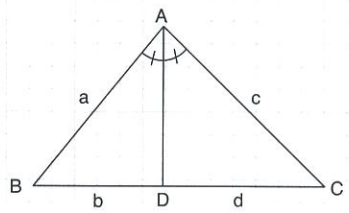
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	A	E	D	B	D	C	D	B	A	E	C	C	D	E	E

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	C	B	A	D	D	C	B	C	E	A	C	C	B	C	C

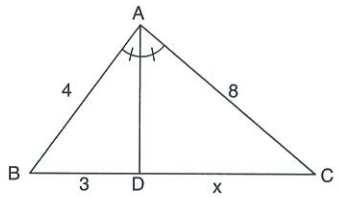
AÇIORTAY
BISECTOR

ÖZELLİK | Property 1



$$\frac{a}{b} = \frac{c}{d}$$

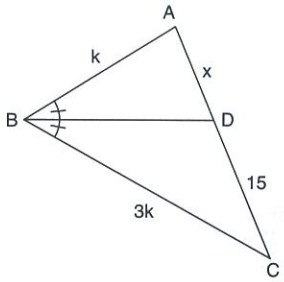
1.



⇒ x = ?

6

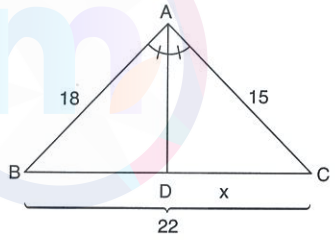
2.



⇒ x = ?

5

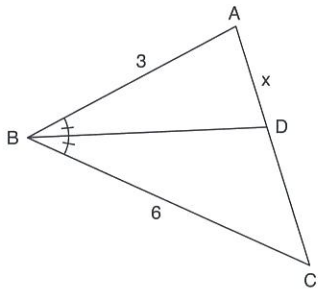
3.



⇒ x = ?

10

4.

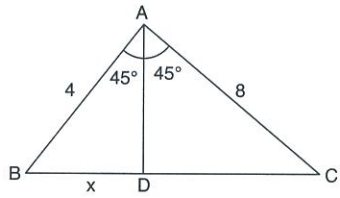


Ç(ABC) = 15 br

⇒ x = ?

2

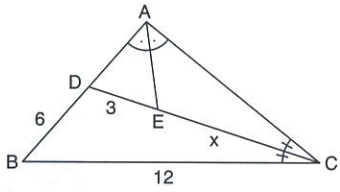
5.



⇒ x = ?

$\frac{4\sqrt{5}}{3}$

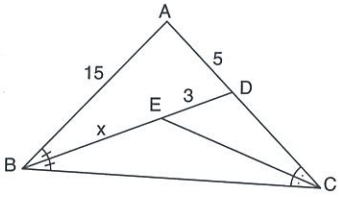
6.



⇒ x = ?

6

7.



⇒ x = ?

9

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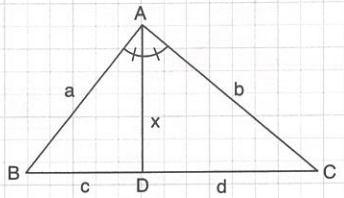
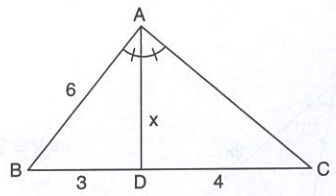
PUZA YAYINLARI

ÖZELLİK | Property 2



$x^2 = a \cdot b - c \cdot d$

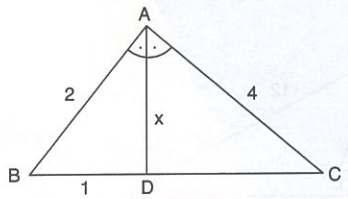
1.



$\Rightarrow x = ?$

6

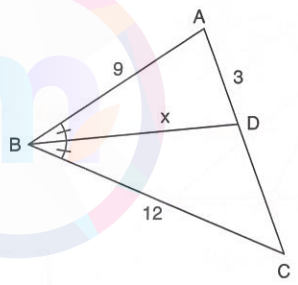
2.



$\Rightarrow x = ?$

$\sqrt{6}$

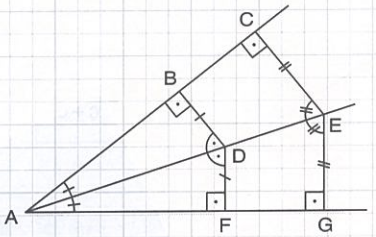
3.



$\Rightarrow x = ?$

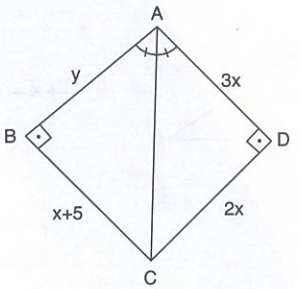
$4\sqrt{6}$

ÖZELLİK | Property 3



$|AB| = |AF|$
$|AC| = |AG|$

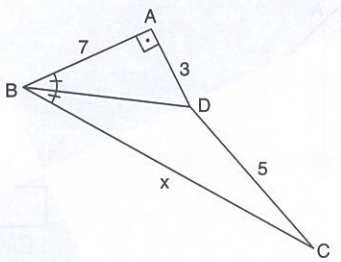
1.



$\Rightarrow y = ?$

15

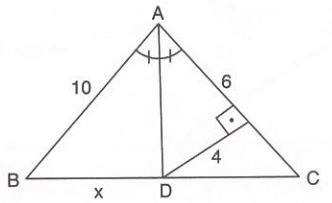
2.



$\Rightarrow x = ?$

11

3.



$\Rightarrow x = ?$

$4\sqrt{2}$

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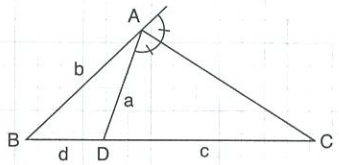
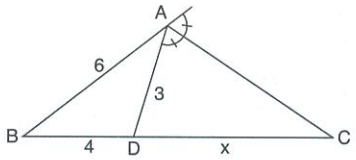
PUZA YAYINLARI

ÖZELLİK | Property 4



$$\frac{a}{b} = \frac{c}{c+d}$$

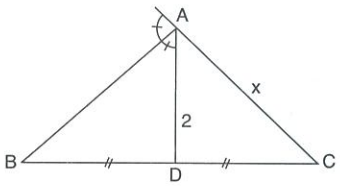
1.



$\Rightarrow x = ?$

4

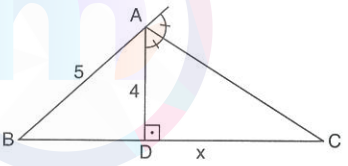
2.



$\Rightarrow x = ?$

4

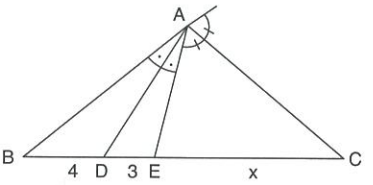
3.



$\Rightarrow x = ?$

12

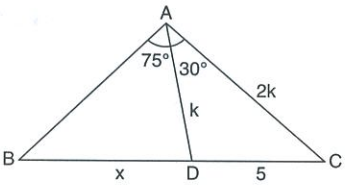
4.



$\Rightarrow x = ?$

21

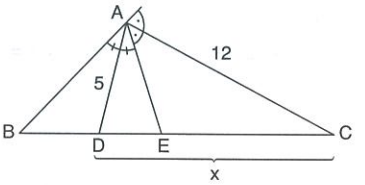
5.



$\Rightarrow x = ?$

5

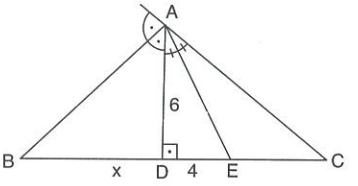
6.



$\Rightarrow x = ?$

13

7.



$\Rightarrow x = ?$

9

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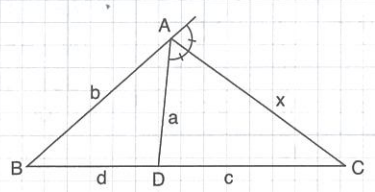
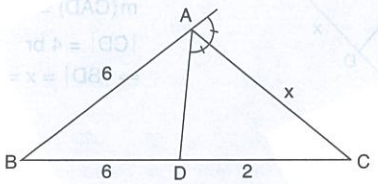
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK | Property 5



$$x^2 = c \cdot (c + d) - a \cdot b$$

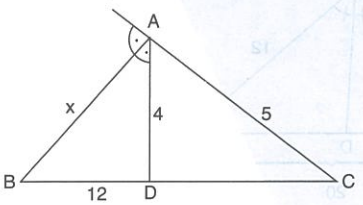
1.



⇒ x = ?

√7

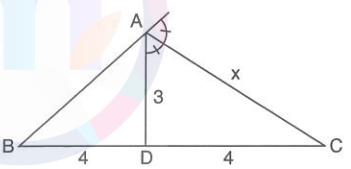
2.



⇒ x = ?

4√10

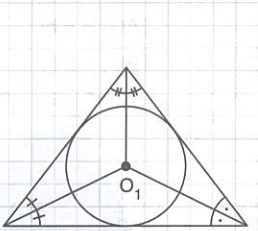
3.



⇒ x = ?

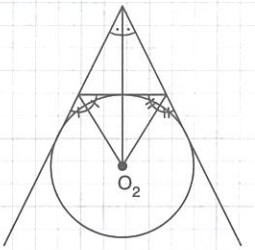
√14

ÖZELLİK | Property 6



İç açıortayların kesim noktası, iç teğet çemberinin merkezi, O_1 dir.

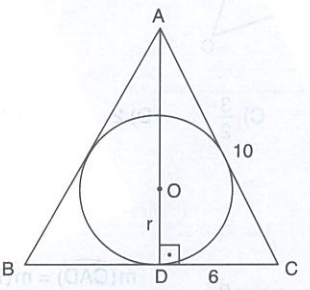
The intersection point of the interior angle bisectors is the center O_1 of the incircle.



Dış açıortayların kesim noktası, dış teğet çemberinin merkezi, O_2 dir.

The intersection point of the exterior angle bisectors is the center O_2 of the excircle.

1.



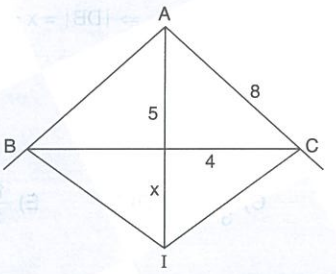
O, iç teget çemberin merkezi

The central point of the incircle

⇒ r = ?

3

2.



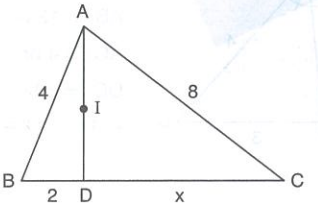
I dış teget çemberin merkezi

Central point of the excircle

⇒ x = ?

5

3.



I iç teget çemberin merkezi

The central point of the incircle

⇒ x = ?

4

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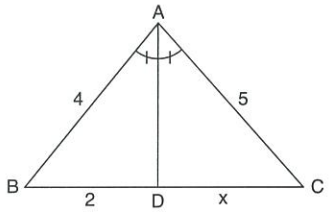
PUZA YAYINLARI
PUZA YAYINLARI

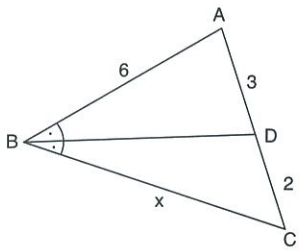
1.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AB| = 4$ br
$|AC| = 5$ br
$|BD| = 2$ br
$\Rightarrow |DC| = x = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

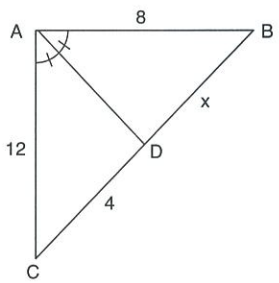
2.



$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AB| = 6$ br
$|AD| = 3$ br
$|DC| = 2$ br
$\Rightarrow |BC| = x = ?$

A) 4 B) 3 C) $\frac{3}{2}$ D) 2 E) 1

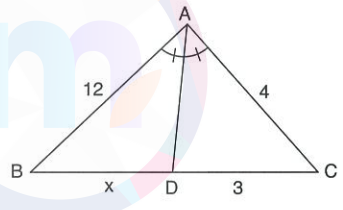
3.



$m(\widehat{CAD}) = m(\widehat{DAB})$
$|AB| = 8$ br
$|AC| = 12$ br
$|DC| = 4$ br
$\Rightarrow |DB| = x = ?$

A) 1 B) 2 C) $\frac{8}{3}$ D) 3 E) $\frac{10}{3}$

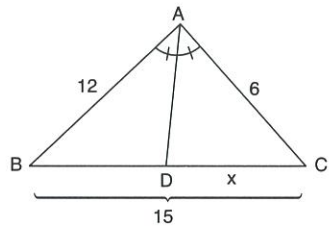
4.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AB| = 12$ br
$|AC| = 4$ br
$|DC| = 3$ br
$\Rightarrow |BD| = x = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

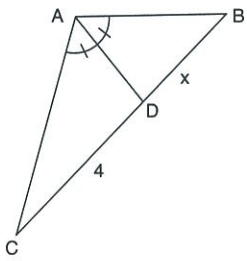
5.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AB| = 12$ br
$|AC| = 6$ br
$|BC| = 15$ br
$\Rightarrow |DC| = x = ?$

A) 5 B) 6 C) 8 D) 9 E) 10

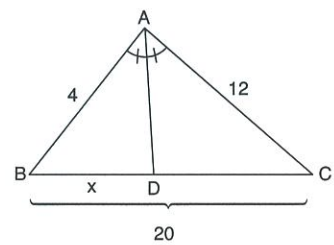
6.



$|AB| = 3|AC|$
$m(\widehat{CAD}) = m(\widehat{DAB})$
$|CD| = 4$ br
$\Rightarrow |BD| = x = ?$

A) $\frac{4}{3}$ B) 4 C) 6 D) 8 E) 12

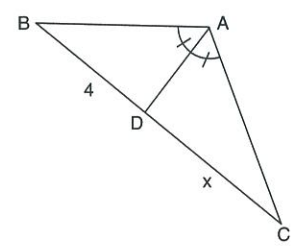
7.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AB| = 4$ br
$|AC| = 12$ br
$|BC| = 20$ br
$\Rightarrow |BD| = x = ?$

A) 5 B) 6 C) 7 D) 8 E) 10

8.



$2|AC| = 3|AB|$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|BD| = 4$ br
$\Rightarrow |DC| = x = ?$

A) $\frac{8}{3}$ B) 5 C) 6 D) 8 E) 10

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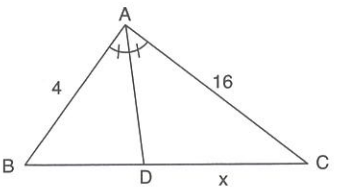
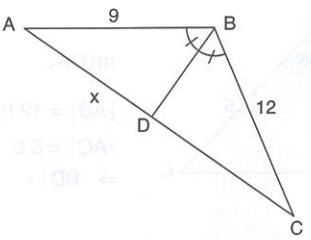
9.



Ç(ABC) = 35
$m(\widehat{BAD}) = m(\widehat{DAC})$
|AB| = 4 br
|AC| = 16 br
⇒ |DC| = x = ?

A) 3 B) 6 C) 9 D) 12 E) 15

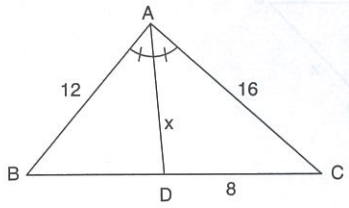
10.



Ç(ABC) = 35
$m(\widehat{ABD}) = m(\widehat{DBC})$
|AB| = 9 br
|BC| = 12 br
⇒ |AD| = x = ?

A) 3 B) 4 C) 6 D) 7 E) 8

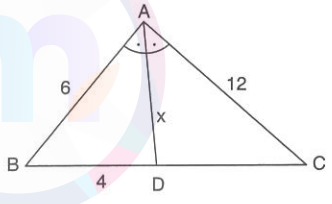
11.



$m(\widehat{BAD}) = m(\widehat{DAC})$
|AB| = 12 br
|AC| = 16 br
|DC| = 8 br
⇒ |AD| = x = ?

A) 6 B) $6\sqrt{5}$ C) 12 D) $12\sqrt{5}$ E) 16

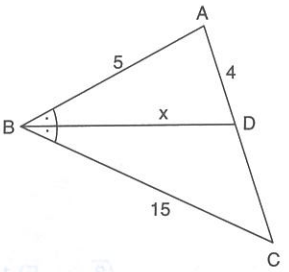
12.



$m(\widehat{BAD}) = m(\widehat{DAC})$
|AB| = 6 br
|AC| = 12 br
|BD| = 4 br
⇒ |AD| = x = ?

A) $2\sqrt{10}$ B) $4\sqrt{3}$ C) $2\sqrt{15}$ D) 8 E) 16

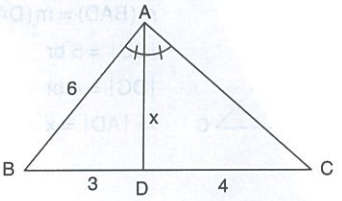
13.



$m(\widehat{ABD}) = m(\widehat{DBC})$
|AD| = 4 br
|AB| = 5 br
|BC| = 15 br
⇒ |BD| = x = ?

A) $\sqrt{7}$ B) $3\sqrt{3}$ C) $5\sqrt{3}$ D) 10 E) 12

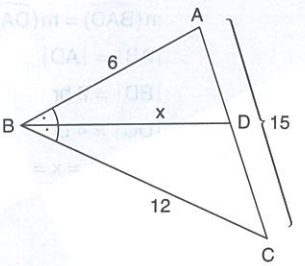
14.



$m(\widehat{BAD}) = m(\widehat{DAC})$
|AB| = 6 br
|BD| = 3 br
|DC| = 4 br
⇒ |AD| = x = ?

A) 3 B) 4 C) $2\sqrt{3}$ D) $3\sqrt{3}$ E) 6

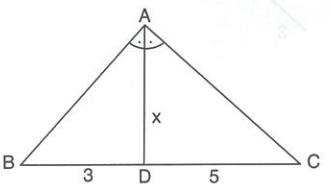
15.



$m(\widehat{ABD}) = m(\widehat{DBC})$
|AB| = 6 br
|AC| = 15 br
|BC| = 12 br
⇒ |BD| = x = ?

A) $\sqrt{10}$ B) $\sqrt{11}$ C) $3\sqrt{2}$ D) $\sqrt{22}$ E) $2\sqrt{11}$

16.



Ç(ABC) = 32
$m(\widehat{BAD}) = m(\widehat{DAC})$
|BD| = 3 br
|DC| = 5 br
⇒ |AD| = x = ?

A) $2\sqrt{5}$ B) $\sqrt{10}$ C) $\sqrt{30}$ D) $2\sqrt{30}$ E) $2\sqrt{33}$

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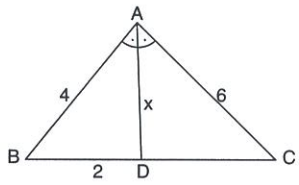
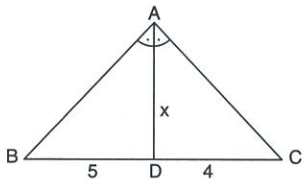
1.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AB| = 4$ br
$|AC| = 6$ br
$|BD| = 2$ br
$\Rightarrow |AD| = x = ?$

A) 6 B) $3\sqrt{2}$ C) $2\sqrt{2}$ D) $\sqrt{3}$ E) 1

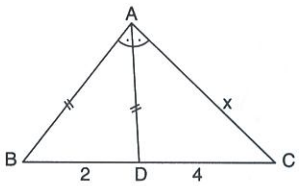
2.



$Ç(ABC) = 27$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|BD| = 5$ br
$|DC| = 4$ br
$\Rightarrow |AD| = x = ?$

A) 2 B) 4 C) $2\sqrt{15}$ D) $\sqrt{17}$ E) $2\sqrt{17}$

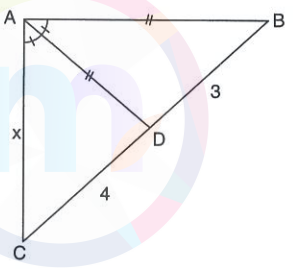
3.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AB| = |AD|$
$|BD| = 2$ br
$|DC| = 4$ br
$\Rightarrow |AC| = x = ?$

A) 1 B) $\sqrt{2}$ C) 2 D) $2\sqrt{2}$ E) $4\sqrt{2}$

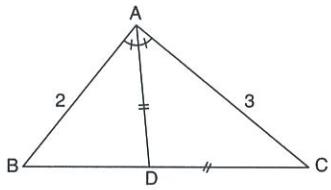
4.



$m(\widehat{CAD}) = m(\widehat{DAB})$
$|AD| = |AB|$
$|BD| = 3$ br
$|DC| = 4$ br
$\Rightarrow |AC| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 12

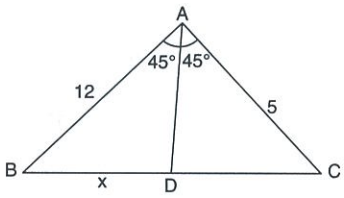
5.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AD| = |DC|$
$|AB| = 2$ br
$|AC| = 3$ br
$\Rightarrow |BC| = ?$

A) $\sqrt{5}$ B) $\sqrt{10}$ C) $\sqrt{15}$ D) 5 E) 10

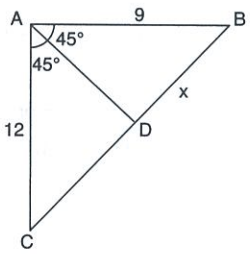
6.



$m(\widehat{BAD}) = 45°$
$m(\widehat{DAC}) = 45°$
$|AB| = 12$ br
$|AC| = 5$ br
$\Rightarrow |BD| = x = ?$

A) 13 B) $\frac{156}{17}$ C) $\frac{65}{17}$ D) 5 E) 3

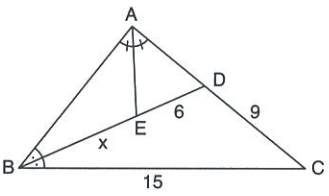
7.



$m(\widehat{CAD}) = 45°$
$m(\widehat{DAB}) = 45°$
$|AB| = 9$ br
$|AC| = 12$ br
$\Rightarrow |BD| = x = ?$

A) 6 B) $\frac{45}{7}$ C) $\frac{60}{7}$ D) 9 E) 12

8.



$m(\widehat{BAE}) = m(\widehat{EAD})$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|ED| = 6$ br
$|DC| = 9$ br
$|BC| = 15$ br
$\Rightarrow |BE| = x = ?$

A) 3 B) 5 C) 6 D) 8 E) 10

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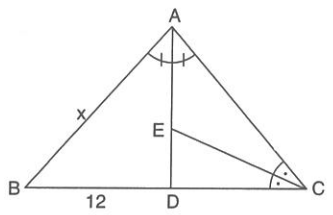
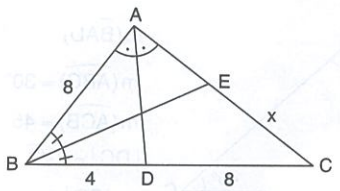
9.



$2|AE| = 3|ED|$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ACE}) = m(\widehat{ECB})$
$|BD| = 12$ br
$\Rightarrow |AB| = x = ?$

A) 24 B) 18 C) 12 D) 8 E) 6

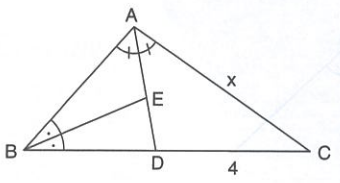
10.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$|AB| = 8$ br
$|BD| = 4$ br
$|DC| = 8$ br
$\Rightarrow |EC| = x = ?$

A) 4 B) $\frac{36}{5}$ C) $\frac{48}{5}$ D) 12 E) 16

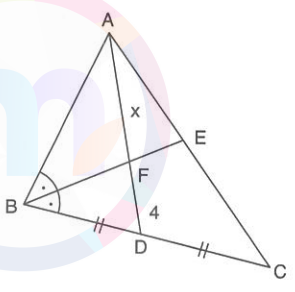
11.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$2|AE| = 3|ED|$
$|DC| = 4$ br
$\Rightarrow |AC| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 12

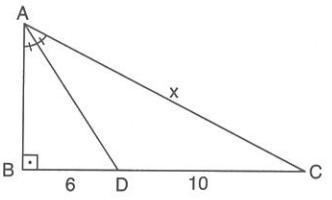
12.



$|BD| = |DC|$
$4|AE| = 5|EC|$
$m(\widehat{CBE}) = m(\widehat{EBA})$
$|FD| = 4$ br
$\Rightarrow |AF| = x = ?$

A) 4 B) 6 C) 9 D) 10 E) 12

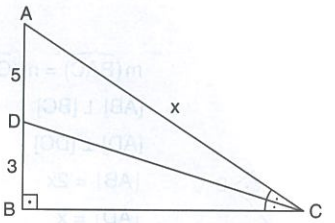
13.



$[AB] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|BD| = 6$ br
$|DC| = 10$ br
$\Rightarrow |AC| = x = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

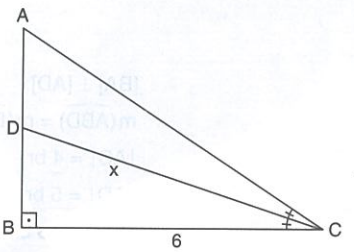
14.



$[AB] \perp [BC]$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|AD| = 5$ br
$|DB| = 3$ br
$\Rightarrow |AC| = x = ?$

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 10 E) 15

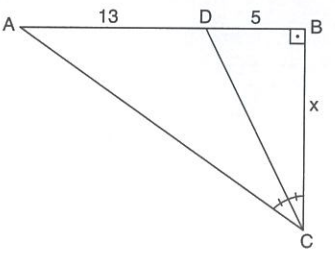
15.



$3|AD| = 5|DB|$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$[BC] \perp [AB]$
$|BC| = 6$ br
$\Rightarrow |DC| = x = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $3\sqrt{5}$ D) $6\sqrt{5}$ E) $8\sqrt{5}$

16.



$[AB] \perp [BC]$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|AD| = 13$ br
$|DB| = 5$ br
$\Rightarrow |BC| = x = ?$

A) 5 B) $\frac{15}{2}$ C) 8 D) 10 E) $\frac{13}{2}$

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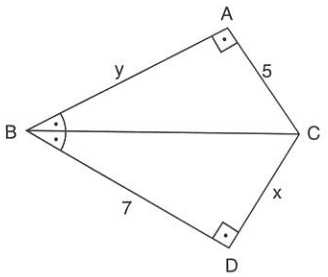
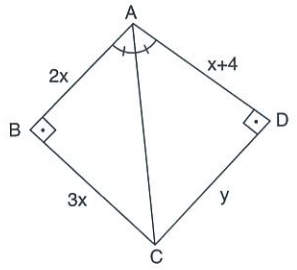
1.



$m(\widehat{ABC}) = m(\widehat{CBD})$
$[BA] \perp [AC]$
$[BD] \perp [DC]$
$|BD| = 7$ br
$|AC| = 5$ br
$|DC| = x$
$|AB| = y$
$\Rightarrow y - x = ?$

A) 1 B) 2 C) 5 D) 7 E) 12

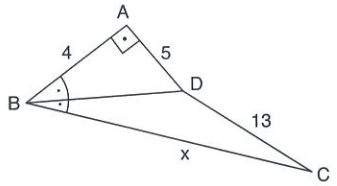
2.



$m(\widehat{BAC}) = m(\widehat{CAD})$
$[AB] \perp [BC]$
$[AD] \perp [DC]$
$|AB| = 2x$
$|AD| = x + 4$
$|BC| = 3x$
$\Rightarrow |DC| = y = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

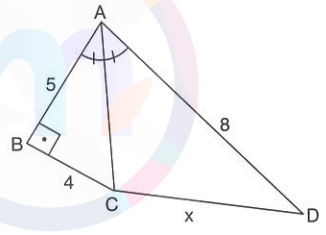
3.



$[BA] \perp [AD]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AB| = 4$ br
$|AD| = 5$ br
$|DC| = 13$ br
$\Rightarrow |BC| = x = ?$

A) 4 B) 5 C) 12 D) 16 E) 20

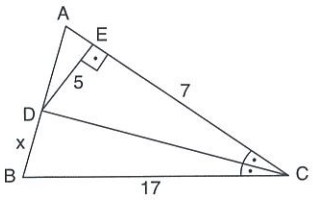
4.



$[AB] \perp [BC]$
$m(\widehat{BAC}) = m(\widehat{CAD})$
$|AB| = 5$ br
$|BC| = 4$ br
$|AD| = 8$ br
$\Rightarrow |CD| = x = ?$

A) 3 B) 4 C) 5 D) $4\sqrt{2}$ E) 8

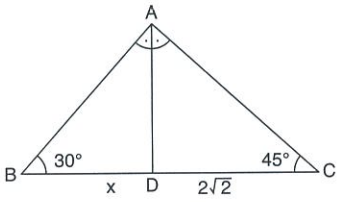
5.



$[DE] \perp [AC]$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|BC| = 17$ br
$|EC| = 7$ br
$|DE| = 5$ br
$\Rightarrow |DB| = x = ?$

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{5}$ D) 10 E) 13

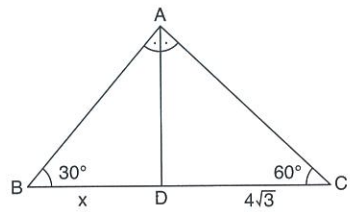
6.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABC}) = 30°$
$m(\widehat{ACB}) = 45°$
$|DC| = 2\sqrt{2}$ br
$\Rightarrow |BD| = x = ?$

A) 1 B) $\sqrt{2}$ C) 2 D) $\sqrt{6}$ E) 4

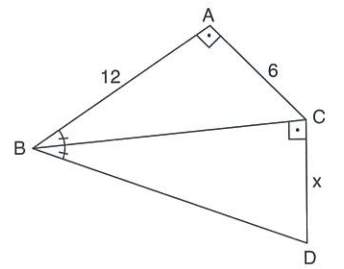
7.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABC}) = 30°$
$m(\widehat{ACB}) = 60°$
$|DC| = 4\sqrt{3}$ br
$\Rightarrow |BD| = x = ?$

A) 4 B) $4\sqrt{3}$ C) 8 D) 12 E) $8\sqrt{3}$

8.



$[BA] \perp [AC]$
$[BC] \perp [CD]$
$|AB| = 12$ br
$|AC| = 6$ br
$\Rightarrow |CD| = x = ?$

A) 3 B) $3\sqrt{2}$ C) $3\sqrt{5}$ D) 6 E) $6\sqrt{5}$

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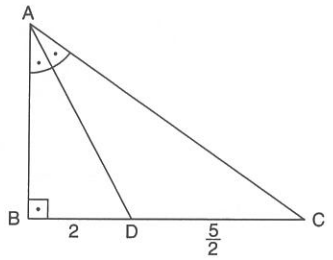
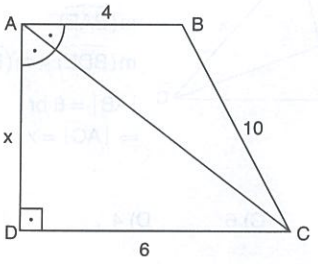
9.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$[AB] \perp [BC]$
$|BD| = 2$ br
$|DC| = \frac{5}{2}$ br
$\Rightarrow |AB| = ?$

A) $\frac{9}{2}$ B) 6 C) 8 D) 9 E) 18

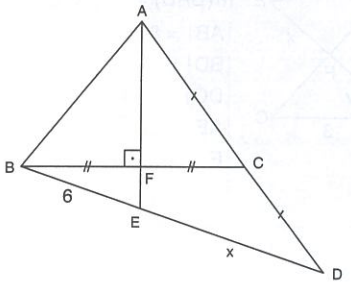
10.



$m(\widehat{DAC}) = m(\widehat{CAB})$
$[AD] \perp [DC]$
$|AB| = 4$ br
$|BC| = 10$ br
$|DC| = 6$ br
$\Rightarrow |AD| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

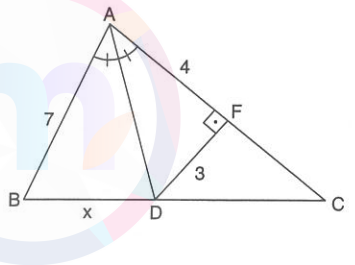
11.



$[AF] \perp [BC]$
$|BF| = |FC|$
$|AC| = |CD|$
$|BE| = 6$ br
$|ED| = x$
$\Rightarrow x = ?$

A) 3 B) 6 C) 9 D) 12 E) 15

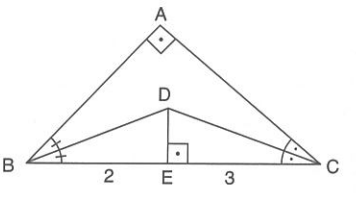
12.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$[DF] \perp [AC]$
$|AF| = 4$ br
$|DF| = 3$ br
$|AB| = 7$ br
$\Rightarrow |BD| = x = ?$

A) 3 B) $3\sqrt{2}$ C) 4 D) 5 E) $5\sqrt{2}$

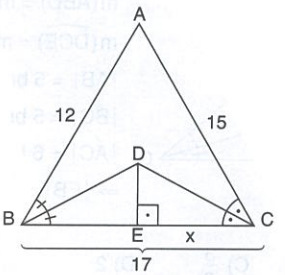
13.



$[DE] \perp [BC]$
$[BA] \perp [AC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|BE| = 2$ br
$|EC| = 3$ br
$\Rightarrow |DE| = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

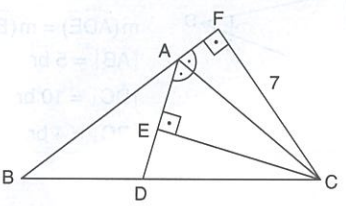
14.



$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$[DE] \perp [BC]$
$|AB| = 12$ br
$|AC| = 15$ br
$|BC| = 17$ br
$|EC| = x$
$\Rightarrow x = ?$

A) 9 B) 10 C) 12 D) 14 E) 16

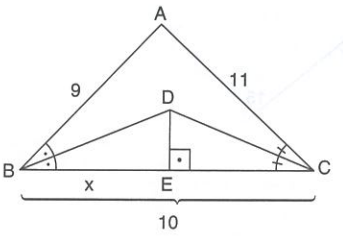
15.



$[BF] \perp [FC]$
$[AD] \perp [CE]$
$m(\widehat{DAC}) = m(\widehat{FAC})$
$|DC| = 14$ br
$|FC| = 7$ br
$\Rightarrow |ED| = ?$

A) $4\sqrt{3}$ B) $7\sqrt{3}$ C) $14\sqrt{3}$ D) $\frac{7}{2}$ E) $\sqrt{7}$

16.



$[DE] \perp [BC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|AB| = 9$ br
$|AC| = 11$ br
$|BC| = 10$ br
$\Rightarrow |BE| = x = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

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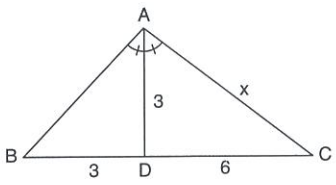
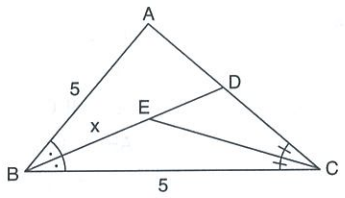
1.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AD| = 3$ br
$|BD| = 3$ br
$|DC| = 6$ br
$\Rightarrow |AC| = x = ?$

A) $3\sqrt{6}$ B) $2\sqrt{6}$ C) $\sqrt{6}$ D) $\sqrt{3}$ E) $\sqrt{2}$

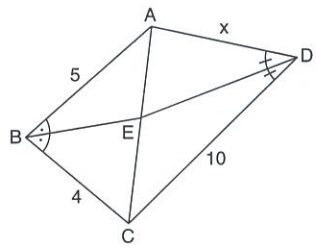
2.



$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{DCE}) = m(\widehat{ECB})$
$|AB| = 5$ br
$|BC| = 5$ br
$|AC| = 6$ br
$\Rightarrow |EB| = x = ?$

A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

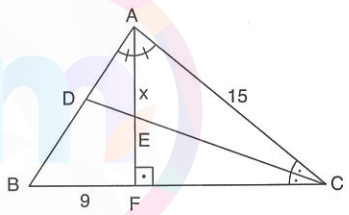
3.



$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$|AB| = 5$ br
$|DC| = 10$ br
$|BC| = 4$ br
$\Rightarrow |AD| = x = ?$

A) 2 B) 4 C) 8 D) $\frac{25}{2}$ E) 25

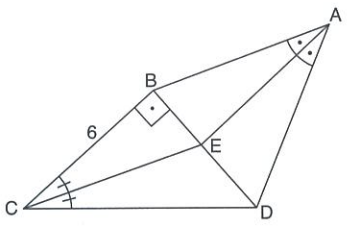
4.



$[AF] \perp [BC]$
$m(\widehat{BAF}) = m(\widehat{FAC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|AC| = 15$ br
$|BF| = 9$ br
$\Rightarrow |AE| = x = ?$

A) $\frac{15}{2}$ B) 6 C) 5 D) $\frac{5}{2}$ E) 2

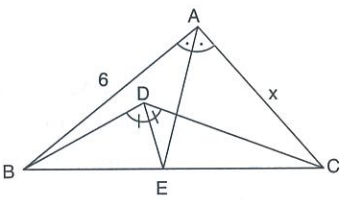
5.



$[CB] \perp [DB]$
$m(\widehat{BAE}) = m(\widehat{EAD})$
$m(\widehat{BCE}) = m(\widehat{ECD})$
$4|AB| = 3|AD|$
$|BC| = 6$ br
$\Rightarrow |BD| = ?$

A) $6\sqrt{6}$ B) $2\sqrt{6}$ C) $\sqrt{21}$ D) $2\sqrt{7}$ E) $\sqrt{7}$

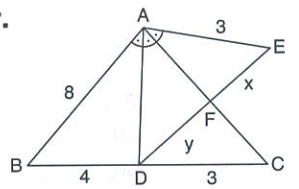
6.



$\frac{|BD|}{|DC|} = \frac{3}{4}$
$m(\widehat{BAE}) = m(\widehat{EAC})$
$m(\widehat{BDE}) = m(\widehat{EDC})$
$|AB| = 6$ br
$\Rightarrow |AC| = x = ?$

A) 16 B) 8 C) 6 D) 4 E) 2

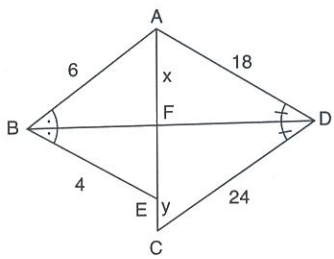
7.



$m(\widehat{BAD}) = m(\widehat{DAC}) = m(\widehat{CAE})$
$|AB| = 8$ br
$|BD| = 4$ br
$|DC| = 3$ br
$|AE| = 3$ br
$|EF| = x$
$|DF| = y$
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{1}{2}$ B) 1 C) 2 D) $\frac{5}{2}$ E) 3

8.



$m(\widehat{ABD}) = m(\widehat{DBE})$
$m(\widehat{ADB}) = m(\widehat{BDC})$
$|AB| = 6$ br
$|AD| = 18$ br
$|DC| = 24$ br
$|BE| = 4$ br
$|AF| = x$
$|EC| = y$
$\Rightarrow \frac{x}{y} = ?$

A) 2 B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

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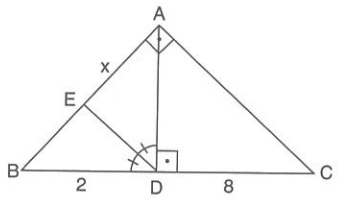
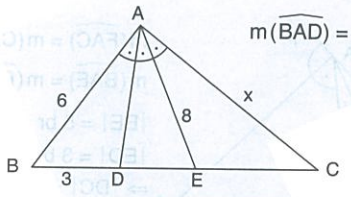
9.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$m(\widehat{BDE}) = m(\widehat{EDA})$
$|DC| = 8$ br
$|BD| = 2$ br
$\Rightarrow |AE| = x = ?$

A) $\frac{4\sqrt{5}}{3}$ B) $2\sqrt{10}$ C) $\frac{4\sqrt{10}}{3}$ D) 10 E) 20

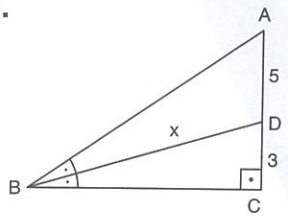
10.



$m(\widehat{BAD}) = m(\widehat{DAE}) = m(\widehat{EAC})$
$|AB| = 6$ br
$|BD| = 3$ br
$|AE| = 8$ br
$\Rightarrow |AC| = x = ?$

A) 6,4 B) 12,8 C) 19,2 D) 20 E) 22

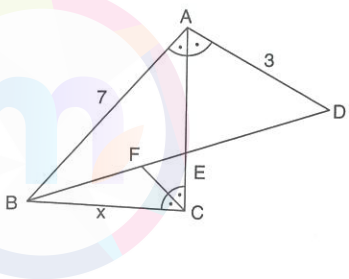
11.



$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AD| = 5$ br
$|DC| = 3$ br
$\Rightarrow |BD| = x = ?$

A) $3\sqrt{5}$ B) 6 C) $6\sqrt{5}$ D) 8 E) 12

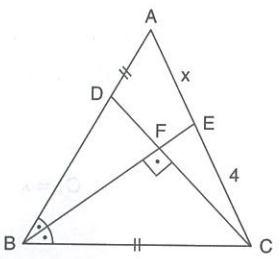
12.



$m(\widehat{ACF}) = m(\widehat{FCB})$
$m(\widehat{BAC}) = m(\widehat{CAD})$
$|BF| = |FD|$
$|BA| = 7$ br
$|AD| = 3$ br
$|EC| = 6$ br
$\Rightarrow |BC| = x = ?$

A) 12 B) 15 C) 16 D) 18 E) 20

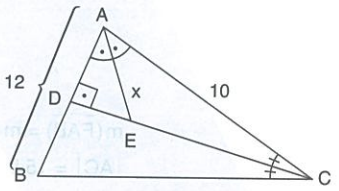
13.



$[BF] \perp [DC]$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$|AD| = |BC|$
$|EC| = 4$ br
$\Rightarrow |AE| = x = ?$

A) 8 B) 4 C) 2 D) 1 E) $\frac{1}{2}$

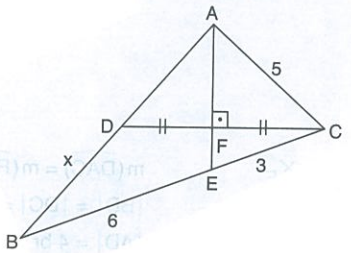
14.



$[AB] \perp [DC]$
$m(\widehat{DAE}) = m(\widehat{EAC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|AB| = 12$ br
$|AC| = 10$ br
$\Rightarrow |AE| = x = ?$

A) 3 B) 5 C) $3\sqrt{5}$ D) 6 E) $6\sqrt{5}$

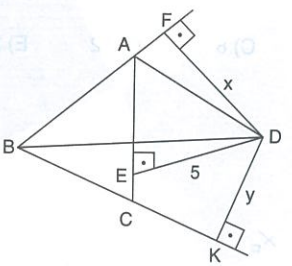
15.



$[AF] \perp [DC]$
$|DF| = |FC|$
$|AC| = 5$ br
$|EC| = 3$ br
$|BE| = 6$ br
$\Rightarrow |DB| = x = ?$

A) 3 B) 5 C) 6 D) 8 E) 10

16.



D dış teğet çemberin merkezi
D, central point of the tangential circle
$[ED] \perp [AC]$
$[DF] \perp [BF]$
$[DK] \perp [BK]$
$|ED| = 5$ br
$|FD| = x$
$|DK| = y$
$\Rightarrow x + y = ?$

A) 5 B) $5\sqrt{2}$ C) 10 D) $10\sqrt{2}$ E) $10\sqrt{3}$

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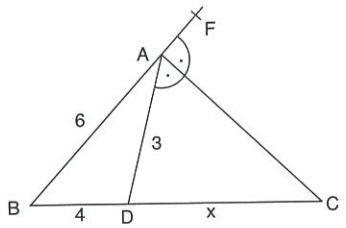
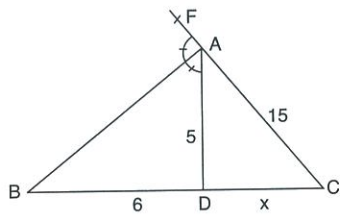
1.



$m(\widehat{DAC}) = m(\widehat{CAF})$
$|AD| = 3$ br
$|AB| = 6$ br
$|BD| = 4$ br
$\Rightarrow |DC| = x = ?$

A) 2 B) $\frac{7}{2}$ C) 4 D) 6 E) $\frac{13}{2}$

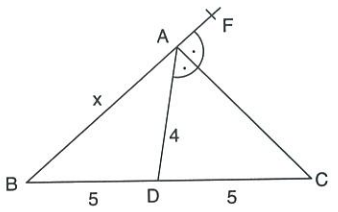
2.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$|AC| = 15$ br
$|BD| = 6$ br
$|AD| = 5$ br
$\Rightarrow |DC| = x = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

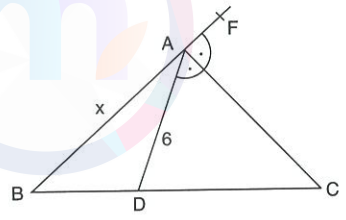
3.



$m(\widehat{DAC}) = m(\widehat{FAC})$
$|BD| = |DC| = 5$ br
$|AD| = 4$ br
$\Rightarrow |AB| = x = ?$

A) 4 B) 6 C) 8 D) 12 E) 20

4.



$m(\widehat{FAC}) = m(\widehat{DAC})$
$3|BD| = 4|DC|$
$|AD| = 6$ br
$\Rightarrow |AB| = x = ?$

A) 7 B) 10 C) 14 D) 21 E) 28

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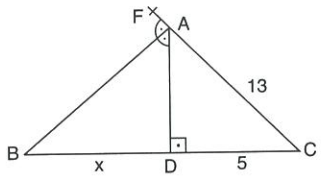
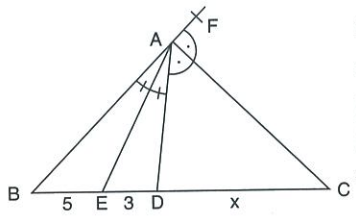
5.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$[AD] \perp [BC]$
$|AC| = 13$ br
$|DC| = 5$ br
$\Rightarrow |BD| = x = ?$

A) 5 B) 12 C) 17 D) 30 E) 60

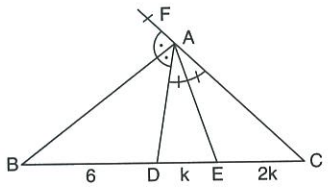
6.



$m(\widehat{FAC}) = m(\widehat{CAD})$
$m(\widehat{BAE}) = m(\widehat{EAD})$
$|BE| = 5$ br
$|ED| = 3$ br
$\Rightarrow |DC| = x = ?$

A) 3 B) 5 C) 6 D) 8 E) 12

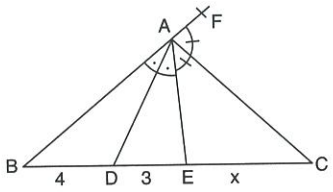
7.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$m(\widehat{DAE}) = m(\widehat{EAC})$
$2|DE| = |EC|$
$|BD| = 6$ br
$\Rightarrow |BE| = ?$

A) 2 B) 6 C) 8 D) 10 E) 12

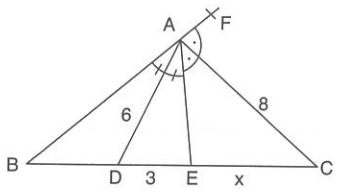
8.



$m(\widehat{FAC}) = m(\widehat{CAE})$
$m(\widehat{BAD}) = m(\widehat{DAE})$
$|BD| = 4$ br
$|DE| = 3$ br
$\Rightarrow |EC| = x = ?$

A) 7 B) 14 C) 21 D) 28 E) 35

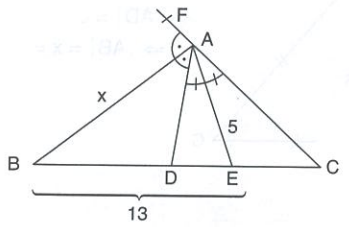
9.



$m(\widehat{BAD}) = m(\widehat{DAE})$
$m(\widehat{FAC}) = m(\widehat{CAE})$
$|AC| = 8$ br
$|AD| = 6$ br
$|DE| = 3$ br
$\Rightarrow |EC| = x = ?$

A) 3 B) 4 C) 7 D) 10 E) 13

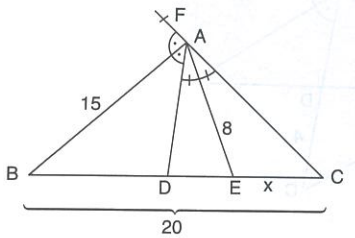
10.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$m(\widehat{DAE}) = m(\widehat{EAC})$
$|AE| = 5$ br
$|BE| = 13$ br
$\Rightarrow |AB| = x = ?$

A) 5 B) 7 C) 8 D) 10 E) 12

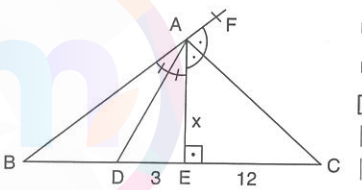
11.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$m(\widehat{DAE}) = m(\widehat{EAC})$
$|AB| = 15$ br
$|AE| = 8$ br
$|BC| = 20$ br
$\Rightarrow |EC| = x = ?$

A) 3 B) 8 C) 17 D) 20 E) 37

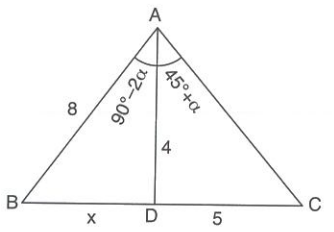
12.



$m(\widehat{FAC}) = m(\widehat{CAE})$
$m(\widehat{EAD}) = m(\widehat{DAB})$
$[AE] \perp [BC]$
$|DE| = 3$ br
$|EC| = 12$ br
$\Rightarrow |AE| = x = ?$

A) 3 B) 6 C) 12 D) $6\sqrt{2}$ E) $6\sqrt{5}$

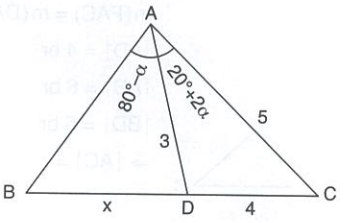
13.



$m(\widehat{BAD}) = 90° - 2\alpha$
$m(\widehat{DAC}) = 45° + \alpha$
$|AD| = 4$ br
$|DC| = 5$ br
$|AB| = 8$ br
$\Rightarrow |BD| = x = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) 5 E) 10

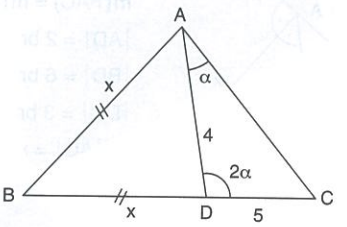
14.



$m(\widehat{BAD}) = 80° - \alpha$
$m(\widehat{DAC}) = 20° + 2\alpha$
$|AD| = 3$ br
$|DC| = 4$ br
$|AC| = 5$ br
$\Rightarrow |BD| = x = ?$

A) 3 B) 4 C) 6 D) 8 E) 12

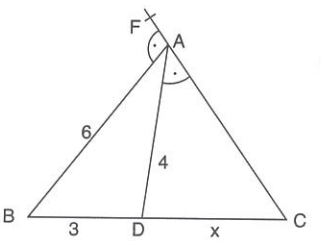
15.



$2m(\widehat{DAC}) = m(\widehat{ADC})$
$|AB| = |BD|$
$|AD| = 4$ br
$|DC| = 5$ br
$\Rightarrow |AB| = x = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

16.

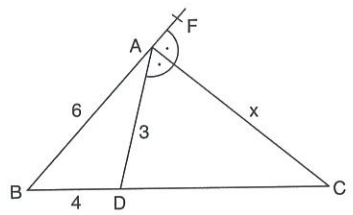


$m(\widehat{FAB}) = m(\widehat{DAC})$
$|AD| = 4$ br
$|AB| = 6$ br
$|BD| = 3$ br
$\Rightarrow |DC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 6

PUZA YAYINLARI

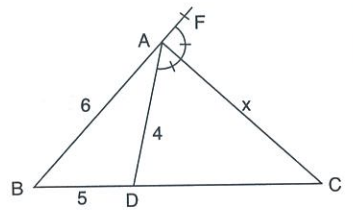
1.



$m(\widehat{FAC}) = m(\widehat{DAC})$
$|AD| = 3$ br
$|BD| = 4$ br
$|AB| = 6$ br
$\Rightarrow |AC| = x = ?$

A) $\sqrt{7}$ B) $\sqrt{14}$ C) $2\sqrt{7}$ D) 7 E) 49

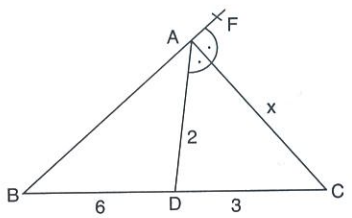
2.



$m(\widehat{FAC}) = m(\widehat{DAC})$
$|AD| = 4$ br
$|AB| = 6$ br
$|BD| = 5$ br
$\Rightarrow |AC| = x = ?$

A) $\sqrt{7}$ B) 3 C) $3\sqrt{7}$ D) $3\sqrt{14}$ E) 12

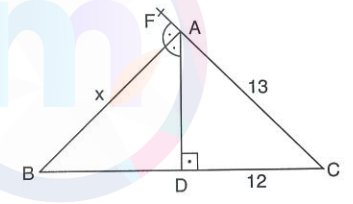
3.



$m(\widehat{FAC}) = m(\widehat{CAD})$
$|AD| = 2$ br
$|BD| = 6$ br
$|DC| = 3$ br
$\Rightarrow |AC| = x = ?$

A) $\sqrt{3}$ B) $\sqrt{5}$ C) $\sqrt{14}$ D) $\sqrt{15}$ E) 6

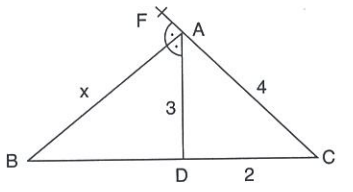
4.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$[AD] \perp [BC]$
$|AC| = 13$ br
$|DC| = 12$ br
$\Rightarrow |AB| = x = ?$

A) $\frac{5\sqrt{13}}{2}$ B) $5\sqrt{13}$ C) 13 D) $13\sqrt{2}$ E) 26

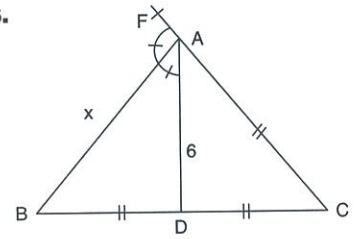
5.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$|AC| = 4$ br
$|DC| = 2$ br
$|AD| = 3$ br
$\Rightarrow |AB| = x = ?$

A) 4 B) 6 C) $6\sqrt{2}$ D) 10 E) 12

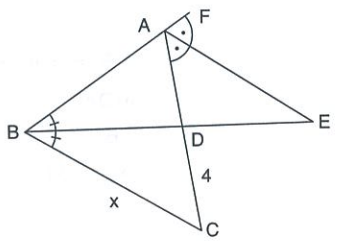
6.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$|AC| = |DC| = |BD|$
$|AD| = 6$ br
$\Rightarrow |AB| = x = ?$

A) $6\sqrt{6}$ B) $6\sqrt{3}$ C) $6\sqrt{2}$ D) 6 E) 3

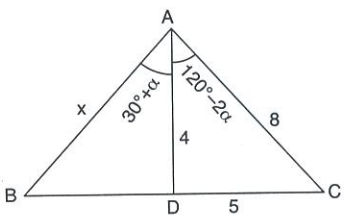
7.



$m(\widehat{FAE}) = m(\widehat{EAC})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$3|DE| = |BD|$
$|DC| = 4$ br
$\Rightarrow |BC| = x = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

8.



$m(\widehat{BAD}) = 30° + \alpha$
$m(\widehat{DAC}) = 120° - 2\alpha$
$|AC| = 8$ br
$|DC| = 5$ br
$|AD| = 4$ br
$\Rightarrow |AB| = x = ?$

A) $\sqrt{6}$ B) 3 C) $3\sqrt{2}$ D) 6 E) 12

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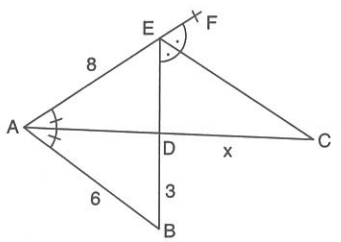
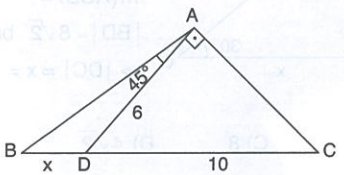
9.



$m(\widehat{FEC}) = m(\widehat{BEC})$
$m(\widehat{FAC}) = m(\widehat{CAB})$
$|AE| = 8$ br
$|AB| = 6$ br
$|DB| = 3$ br
$\Rightarrow |DC| = x = ?$

A) 3 B) 4 C) 6 D) 8 E) 12

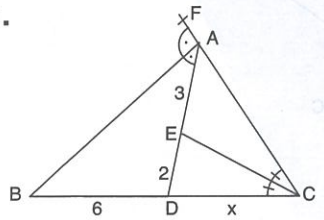
10.



$[DA] \perp [AC]$
$m(\widehat{BAD}) = 45°$
$|AD| = 6$ br
$|DC| = 10$ br
$\Rightarrow |BD| = x = ?$

A) 10 B) 15 C) 30 D) 45 E) 60

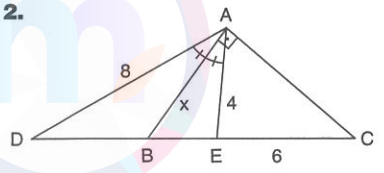
11.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$m(\widehat{ACE}) = m(\widehat{ECB})$
$|AE| = 3$ br
$|ED| = 2$ br
$|BD| = 6$ br
$\Rightarrow |DC| = x = ?$

A) $\frac{5}{2}$ B) 5 C) 8 D) $\frac{15}{2}$ E) $\frac{15}{14}$

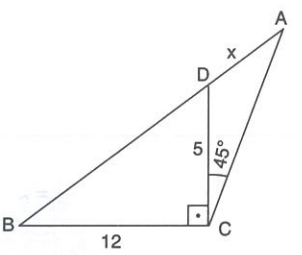
12.



$m(\widehat{DAB}) = m(\widehat{BAE})$
$[BA] \perp [AC]$
$|AE| = 4$ br
$|EC| = 6$ br
$|AD| = 8$ br
$\Rightarrow |AB| = x = ?$

A) 2 B) $2\sqrt{3}$ C) $3\sqrt{2}$ D) $2\sqrt{6}$ E) $3\sqrt{6}$

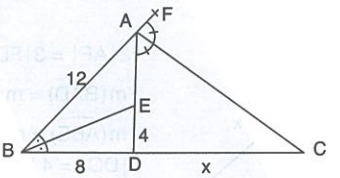
13.



$[BC] \perp [CD]$
$m(\widehat{DCA}) = 45°$
$|BC| = 12$ br
$|DC| = 5$ br
$\Rightarrow |AD| = x = ?$

A) $\frac{65}{17}$ B) $\frac{65}{7}$ C) 12 D) 13 E) 15

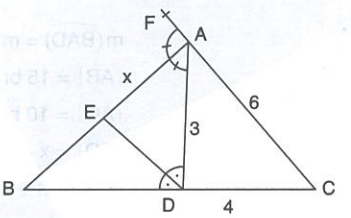
14.



$m(\widehat{FAC}) = m(\widehat{CAD})$
$m(\widehat{FBE}) = m(\widehat{EBC})$
$|ED| = 4$ br
$|AB| = 12$ br
$|BD| = 8$ br
$\Rightarrow |DC| = x = ?$

A) 5 B) 10 C) 20 D) 30 E) 40

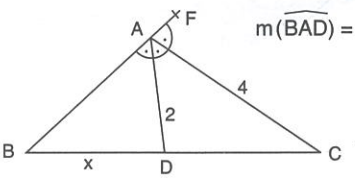
15.



$m(\widehat{FAB}) = m(\widehat{BAD})$
$m(\widehat{ADE}) = m(\widehat{EDB})$
$|AC| = 6$ br
$|DC| = 4$ br
$|AD| = 3$ br
$\Rightarrow |AE| = x = ?$

A) $\frac{\sqrt{7}}{2}$ B) $\frac{\sqrt{7}}{3}$ C) $\frac{\sqrt{14}}{2}$ D) $\frac{\sqrt{14}}{7}$ E) $\frac{3\sqrt{14}}{7}$

16.

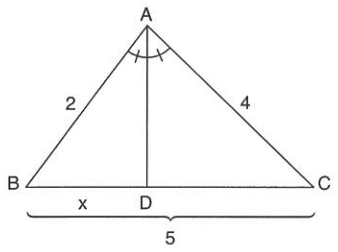


$m(\widehat{BAD}) = m(\widehat{DAC}) = m(\widehat{CAF})$
$|AC| = 4$ br
$|AD| = 2$ br
$\Rightarrow |BD| = x = ?$

A) 1 B) $\sqrt{3}$ C) 2 D) $2\sqrt{3}$ E) $\sqrt{6}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

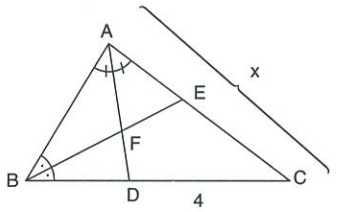
1.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AB| = 2$ br
$|AC| = 4$ br
$|BC| = 5$ br
$\Rightarrow |BD| = x = ?$

A) 1 B) $\frac{5}{3}$ C) 3 D) $\frac{10}{3}$ E) 4

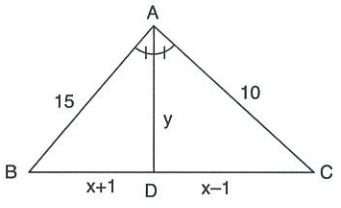
2.



$2|AF| = 3|FD|$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$|DC| = 4$ br
$\Rightarrow |AC| = x = ?$

A) 1 B) 3 C) 4 D) 6 E) 9

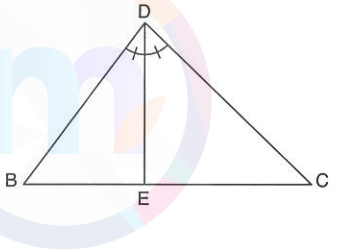
3.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AB| = 15$ br
$|AC| = 10$ br
$|BD| = x + 1$
$|DC| = x - 1$
$\Rightarrow |AD| = y = ?$

A) $\sqrt{7}$ B) $2\sqrt{7}$ C) $\sqrt{17}$ D) $3\sqrt{14}$ E) $9\sqrt{17}$

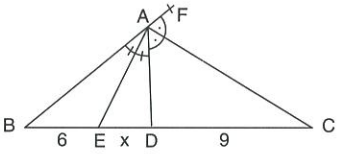
4.



$m(\widehat{BDE}) = m(\widehat{EDC})$
$2|BD| = 3|DC| = 24$
$|DE| = 6\sqrt{2}$ br
$\Rightarrow |BC| = ?$

A) 8 B) 10 C) 12 D) 16 E) 20

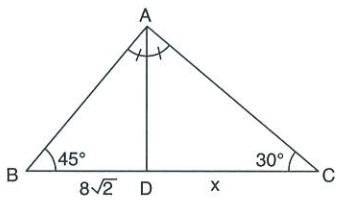
5.



$m(\widehat{FAC}) = m(\widehat{CAD})$
$m(\widehat{DAE}) = m(\widehat{EAB})$
$|DC| = 9$ br
$|BE| = 6$ br
$\Rightarrow |ED| = x = ?$

A) 1 B) 3 C) 4 D) 6 E) 9

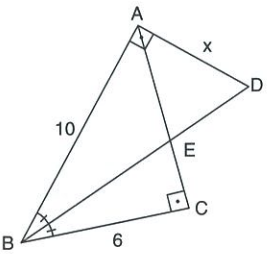
6.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABC}) = 45°$
$m(\widehat{ACB}) = 30°$
$|BD| = 8\sqrt{2}$ br
$\Rightarrow |DC| = x = ?$

A) 16 B) $8\sqrt{2}$ C) 8 D) $4\sqrt{2}$ E) 4

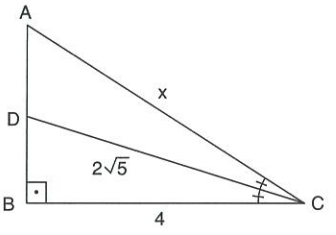
7.



$m(\widehat{ABD}) = m(\widehat{DBC})$
$[BA] \perp [AD]$
$[AC] \perp [BC]$
$|AB| = 10$ br
$|BC| = 6$ br
$\Rightarrow |AD| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

8.

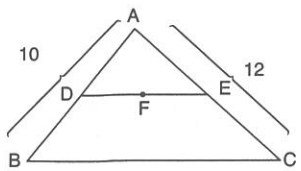


$m(\widehat{ACD}) = m(\widehat{DCB})$
$[AB] \perp [BC]$
$|BC| = 4$ br
$|DC| = 2\sqrt{5}$ br
$\Rightarrow |AC| = x = ?$

A) 4 B) 6 C) $\frac{10}{3}$ D) $\frac{20}{3}$ E) 10

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

9.



F noktası iç teğet çemberin merkezi

F, the central point of the inner tangential circle

[DE] // [BC]

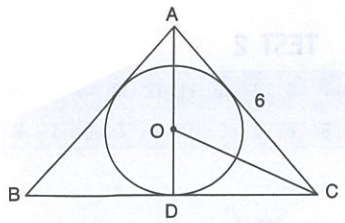
|AB| = 10 br

|AC| = 12 br

⇒ Ç(ADE) = ?

A) 10 B) 12 C) 22 D) 44 E) 66

10.



ABC Eşkenar üçgen

ABC equateral triangle

O iç teğet çemberin merkezi

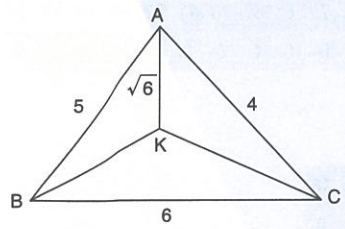
O, the central point of the inner tangential circle

|AC| = 6 br

⇒ |OC| = ?

A) $\sqrt{6}$ B) $\sqrt{3}$ C) $2\sqrt{3}$ D) 3 E) 6

11.



K iç teğet çemberin merkezi

K, the central point of the inner tangential circle

|AK| = $\sqrt{6}$

|AC| = 4 br

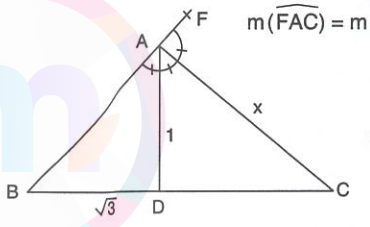
|BC| = 6 br

|AB| = 5 br

⇒ |KC| = ?

A) $2\sqrt{2}$ B) $\sqrt{3}$ C) $\sqrt{5}$ D) 3 E) 2

12.



$m(\widehat{FAC}) = m(\widehat{CAD}) = m(\widehat{DAB})$

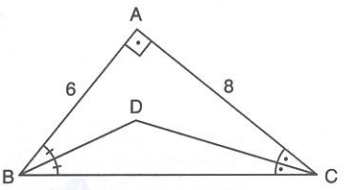
|AD| = 1 br

|BD| = $\sqrt{3}$ br

⇒ |AC| = x = ?

A) 1 B) $\sqrt{3}$ C) 2 D) $2\sqrt{3}$ E) 4

13.



[AB] ⊥ [AC]

|AB| = 6 br

|AC| = 8 br

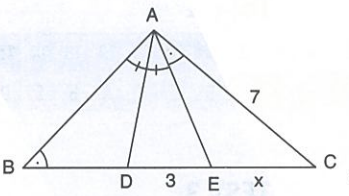
$m(\widehat{ABD}) = m(\widehat{DBC})$

$m(\widehat{ACD}) = m(\widehat{DCB})$

⇒ |BD| = ?

A) $\sqrt{3}$ B) $\sqrt{5}$ C) $2\sqrt{5}$ D) $3\sqrt{5}$ E) $2\sqrt{3}$

14.



$m(\widehat{BAD}) = m(\widehat{DAE})$

$m(\widehat{ABC}) = m(\widehat{EAC})$

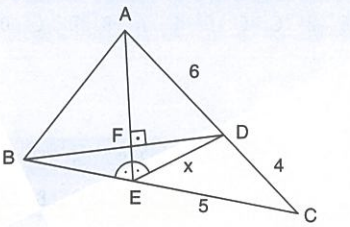
|AC| = 7 br

|DE| = 3 br

⇒ |EC| = x = ?

A) 2 B) 3 C) 4 D) 7 E) 10

15.



[AF] ⊥ [BD]

$m(\widehat{BEA}) = m(\widehat{AED})$

|AD| = 6 br

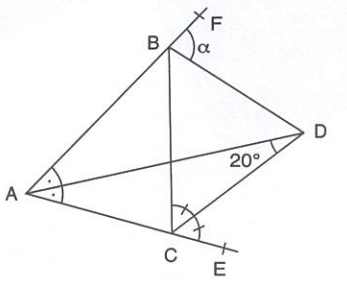
|DC| = 4 br

|EC| = 5 br

⇒ |ED| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

16.



$m(\widehat{FAD}) = m(\widehat{DAE})$

$m(\widehat{BCD}) = m(\widehat{DCE})$

$m(\widehat{ADC}) = 20°$

⇒ $m(\widehat{FBD}) = \alpha$ = ?

A) 10 B) 20 C) 35 D) 70 E) 140

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

AÇIORTAY BISECTOR
Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	A	C	D	A	E	A	C	D	C	C	A	B	E	D	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	E	D	B	B	B	E	B	C	C	D	C	D	C	B

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	D	C	C	E	D	C	B	D	D	B	A	B	B	B

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	E	D	A	D	B	A	C	A	C	A	B	A	C	B	C

TEST 5

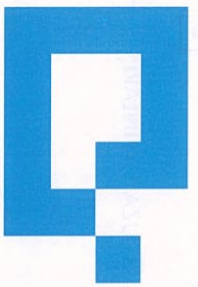
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	E	C	C	E	E	C	C	C	E	A	B	D	C	D	E

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	D	A	B	A	D	C	C	C	D	D	B	E	E	D

TEST 7

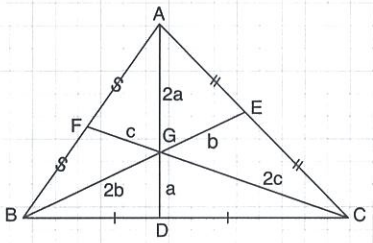
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	D	B	B	A	E	D	C	C	E	C	C	C	C	D



KENARORTAY

MEDIAN

ÖZELLİK|Property 1



$|AD| = V_a$

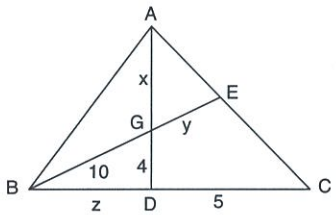
$|BE| = V_b$

$|CF| = V_c$

G ağırlık merkezi

G, center of gravity

1.



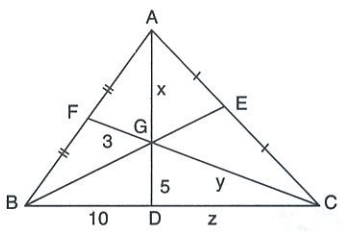
G ağırlık merkezi

G, center of gravity

$\Rightarrow x + y + z = ?$

18

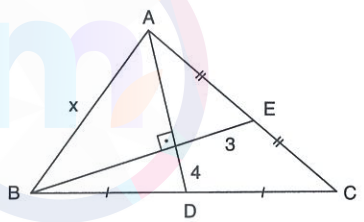
2.



$\Rightarrow x + y + z = ?$

26

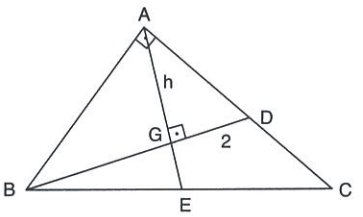
3.



$\Rightarrow x = ?$

10

4.



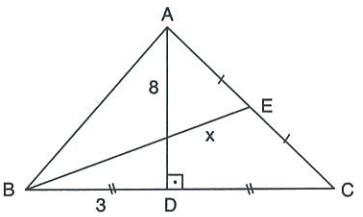
G ağırlık merkezi

G, center of gravity

$\Rightarrow h = ?$

$2\sqrt{2}$

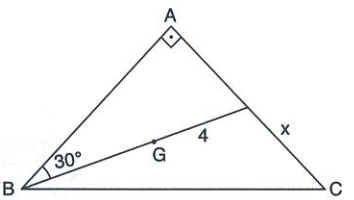
5.



$\Rightarrow x = ?$

$\frac{5}{2}$

6.



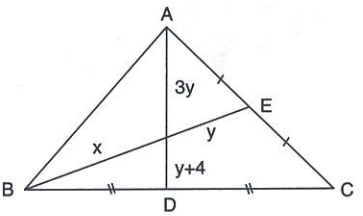
G ağırlık merkezi

G, center of gravity

$\Rightarrow x = ?$

6

7.

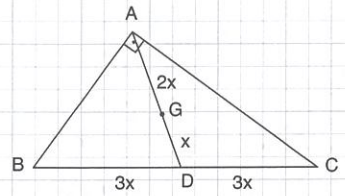


$\Rightarrow x = ?$

16

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

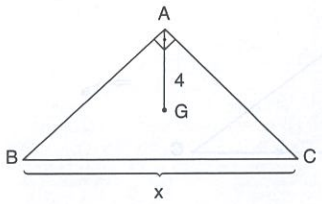
ÖZELLİK|Property 2



G ağırlık merkezi

G, center of gravity

1.



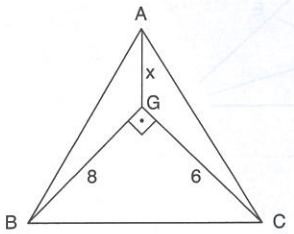
G ağırlık merkezi

G, center of gravity

⇒ x = ?

12

2.



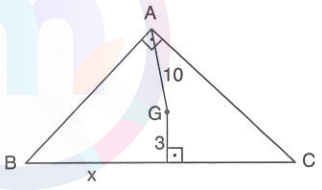
G ağırlık merkezi

G, center of gravity

⇒ x = ?

10

3.



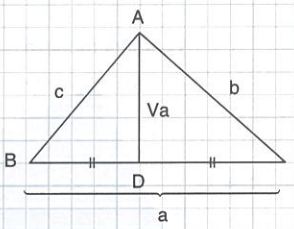
G ağırlık merkezi

G, center of gravity

⇒ x = ?

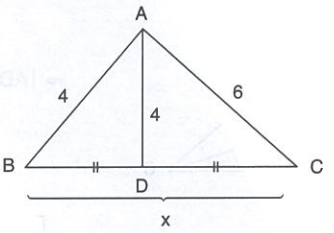
11

ÖZELLİK|Property 3



$$2(Va)^2 = b^2 + c^2 - \frac{a^2}{2}$$

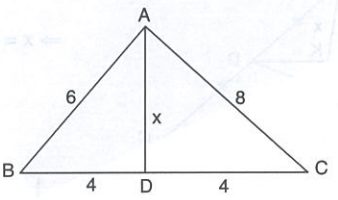
1.



⇒ x = ?

$2\sqrt{10}$

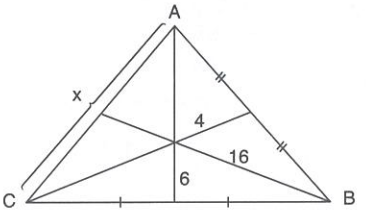
2.



⇒ x = ?

$\sqrt{34}$

3.

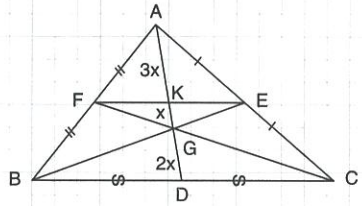


⇒ x = ?

$4\sqrt{10}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

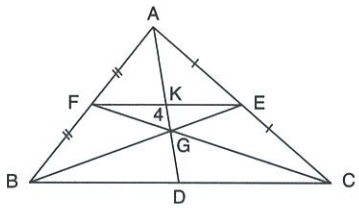
ÖZELLİK|Property 4



G ağırlık merkezi

G, center of gravity

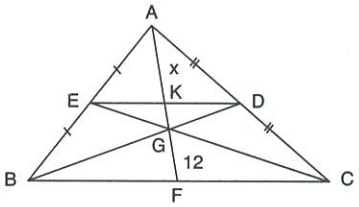
1.



⇒ |AD| = ?

24

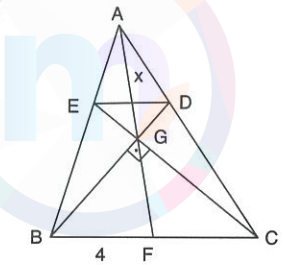
2.



⇒ x = ?

18

3.



G ağırlık merkezi

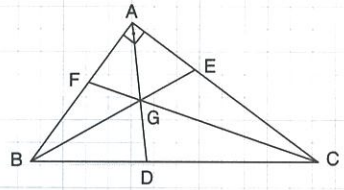
G, center of gravity

⇒ x = ?

6

PUZA YAYINLARI

ÖZELLİK|Property 5



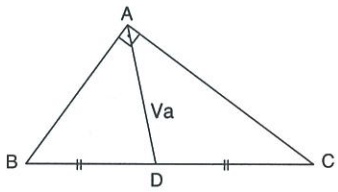
|AD| = V_a
|BE| = V_b
|CF| = V_c

G ağırlık merkezi

G, center of gravity

$5V_a^2 = V_b^2 + V_c^2$

1.



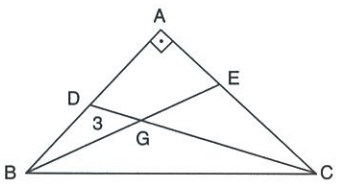
V_b = 12 br

V_c = 9 br

⇒ V_a = ?

$3\sqrt{5}$

2.



G ağırlık merkezi

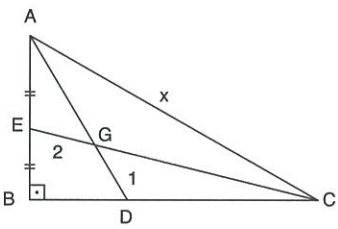
G, center of gravity

|BE| = 7 br

⇒ V_a = ?

$\sqrt{26}$

3.



G ağırlık merkezi

G, center of gravity

⇒ x = ?

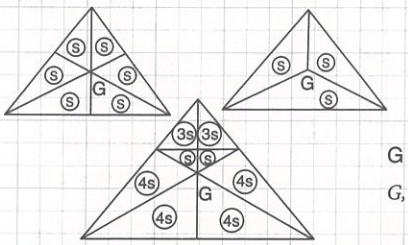
6

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

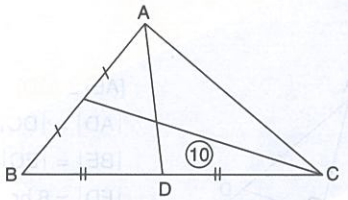
ÖZELLİK|Property 6



G ağırlık merkezi

G, center of gravity

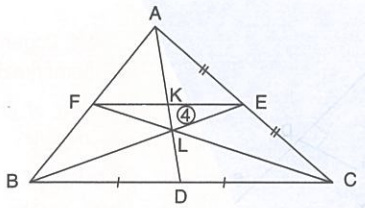
1.



⇒ A(ABC) = ?

60

2.

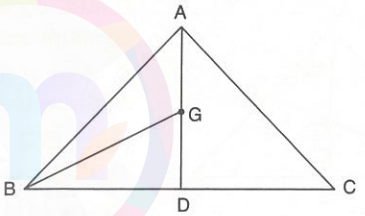


A(KEL) = 4 br²

⇒ A(ABC) = ?

96

3.



A(ABC) = 120 br²

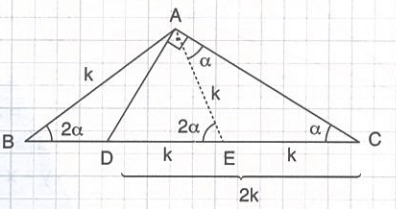
G ağırlık merkezi

G, center of gravity

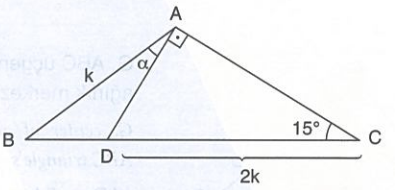
⇒ A(BGD) = ?

20

ÖZELLİK|Property 7



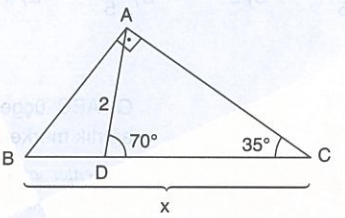
1.



⇒ α = ?

45

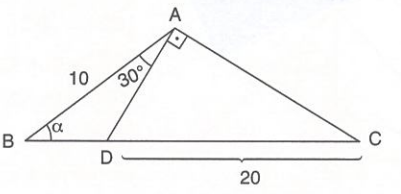
2.



⇒ x = ?

4

3.

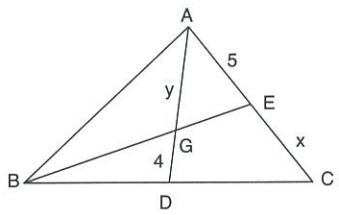


⇒ α = ?

40

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|AE| = 5$ br

$|GD| = 4$ br

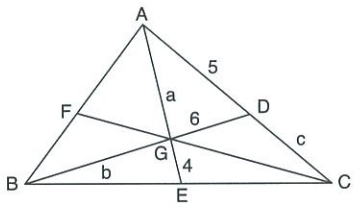
$|EC| = x$

$|AG| = y$

$\Rightarrow y - x = ?$

A) 1 B) 2 C) 3 D) 5 E) 9

2.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|AD| = 5$ br

$|GE| = 4$ br

$|GD| = 6$ br

$|AG| = a$

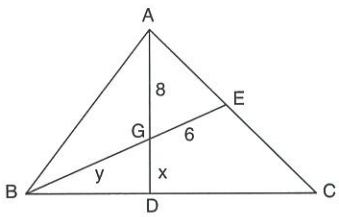
$|BG| = b$

$|DC| = c$

$\Rightarrow \frac{a+b}{c} = ?$

A) 1 B) $\frac{7}{5}$ C) 2 D) $\frac{14}{5}$ E) 4

3.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|AG| = 8$ br

$|GE| = 6$ br

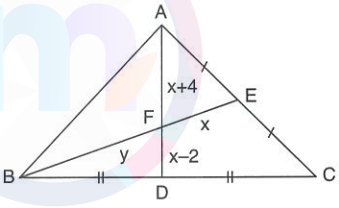
$|BG| = y$

$|GD| = x$

$\Rightarrow y - x = ?$

A) 1 B) 4 C) 6 D) 8 E) 10

4.



$|AE| = |EC|$

$|BD| = |DC|$

$|AF| = (x + 4)$ br

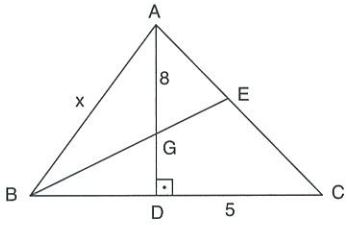
$|FD| = (x - 2)$ br

$|FE| = x$ br

$\Rightarrow |BF| = y = ?$

A) 16 B) 12 C) 10 D) 8 E) 4

5.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AD] \perp [BC]$

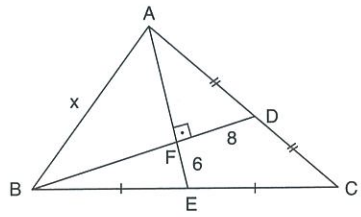
$|AG| = 8$ br

$|DC| = 5$ br

$\Rightarrow |AB| = x = ?$

A) 3 B) 5 C) 12 D) 13 E) 15

6.



$[AE] \perp [BD]$

$|AD| = |DC|$

$|BE| = |EC|$

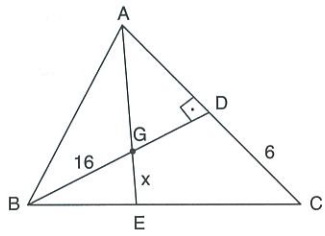
$|FD| = 8$ br

$|FE| = 6$ br

$\Rightarrow |AB| = x = ?$

A) 2 B) 4 C) 5 D) 10 E) 20

7.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[BD] \perp [AC]$

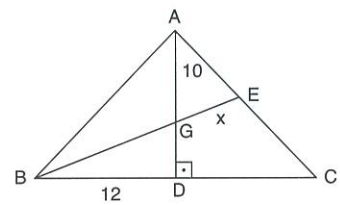
$|BG| = 16$ br

$|DC| = 6$ br

$\Rightarrow |GE| = x = ?$

A) 5 B) 10 C) 12 D) 13 E) 15

8.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AD] \perp [BC]$

$|AG| = 10$ br

$|BD| = 12$ br

$\Rightarrow |GE| = x = ?$

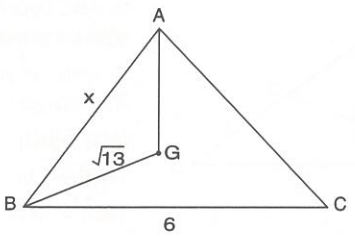
A) 26 B) 13 C) $\frac{13}{2}$ D) $\frac{13}{4}$ E) $\frac{13}{8}$

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

9.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|AB| = |AC|$

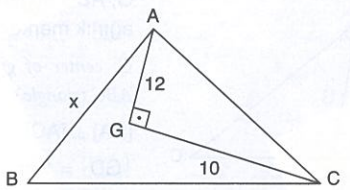
$|BC| = 6$ br

$|BG| = \sqrt{13}$

$\Rightarrow |AB| = x = ?$

A) 13 B) 10 C) 8 D) $3\sqrt{5}$ E) $6\sqrt{5}$

10.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AG] \perp [GC]$

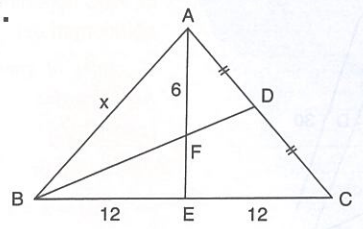
$|AG| = 12$ br

$|GC| = 10$ br

$\Rightarrow |AB| = x = ?$

A) 26 B) 20 C) 16 D) 13 E) 10

11.



$|AB| = |AC|$

$|AD| = |DC|$

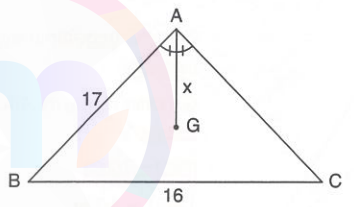
$|BE| = |EC| = 12$ br

$|AF| = 6$ br

$\Rightarrow |AB| = x = ?$

A) $15\sqrt{3}$ B) 15 C) $10\sqrt{3}$ D) 10 E) 5

12.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$m(\widehat{BAG}) = m(\widehat{GAC})$

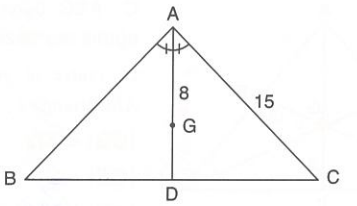
$|AB| = 17$ br

$|BC| = 16$ br

$\Rightarrow |AG| = x = ?$

A) 30 B) 20 C) 15 D) 10 E) 5

13.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$m(\widehat{BAD}) = m(\widehat{DAC})$

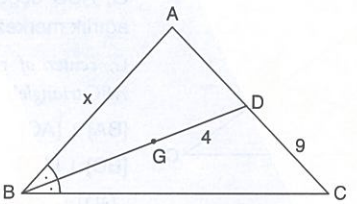
$|AC| = 15$ br

$|AG| = 8$ br

$\Rightarrow |BC| = ?$

A) 20 B) 18 C) 15 D) 12 E) 10

14.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$m(\widehat{ABD}) = m(\widehat{DBC})$

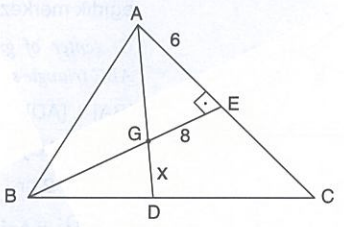
$|DC| = 9$ br

$|GD| = 4$ br

$\Rightarrow |AB| = x = ?$

A) 25 B) 20 C) 15 D) 10 E) 5

15.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

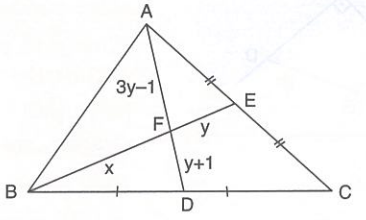
$|AE| = 6$ br

$|GE| = 8$ br

$\Rightarrow |GD| = x = ?$

A) 20 B) 10 C) $\frac{15}{2}$ D) 5 E) $\frac{5}{2}$

16.



$|AE| = |EC|$

$|BD| = |DC|$

$|AF| = (3y - 1)$ br

$|FD| = (y + 1)$ br

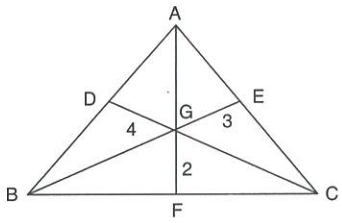
$|FE| = y$ br

$\Rightarrow |BF| = x = ?$

A) 3 B) 6 C) 8 D) 9 E) 11

PUZA YAYINLARI

1.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|DG| = 4$ br

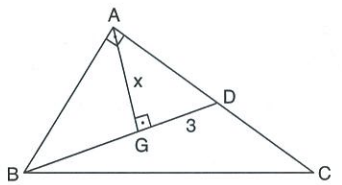
$|GE| = 3$ br

$|GF| = 2$ br

$\Rightarrow V_a + V_b + V_c = ?$

A) 30 B) 27 C) 18 D) 9 E) $\frac{9}{2}$

2.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[BA] \perp [AC]$

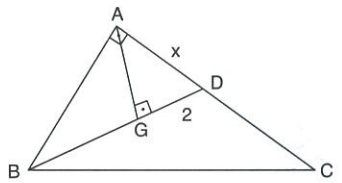
$[BD] \perp [AG]$

$|GD| = 3$ br

$\Rightarrow |AG| = x = ?$

A) $\sqrt{3}$ B) 3 C) $3\sqrt{2}$ D) $\sqrt{6}$ E) $6\sqrt{2}$

3.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[BA] \perp [AD]$

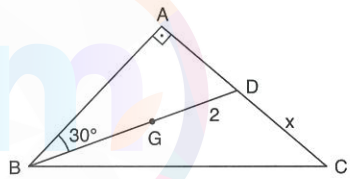
$[BD] \perp [AG]$

$|GD| = 2$ br

$\Rightarrow |AD| = x = ?$

A) $\sqrt{2}$ B) $\sqrt{3}$ C) $\sqrt{6}$ D) $2\sqrt{3}$ E) $3\sqrt{2}$

4.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[BA] \perp [AC]$

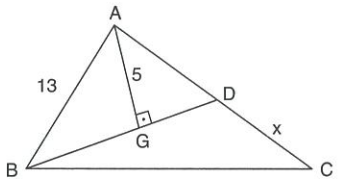
$m(\widehat{ABD}) = 30°$

$|GD| = 2$ br

$\Rightarrow |DC| = x = ?$

A) 1 B) 2 C) $2\sqrt{3}$ D) 3 E) $3\sqrt{3}$

5.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AG] \perp [BD]$

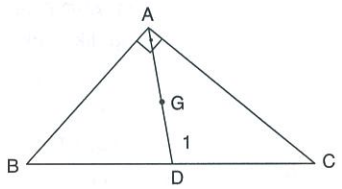
$|AG| = 5$ br

$|AB| = 13$ br

$\Rightarrow |DC| = x = ?$

A) 13 B) 10 C) $\sqrt{61}$ D) 7 E) $\sqrt{11}$

6.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

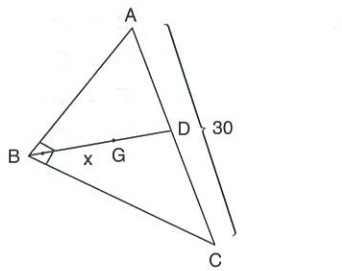
$[BA] \perp [AC]$

$|GD| = 1$ br

$\Rightarrow |BC| = ?$

A) 1 B) 2 C) 3 D) 6 E) 9

7.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

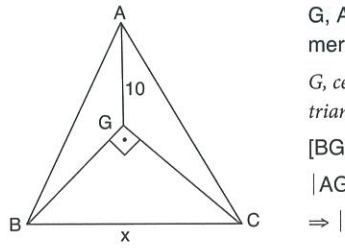
$[AB] \perp [BC]$

$|AC| = 30$ br

$\Rightarrow |BG| = x = ?$

A) 5 B) 10 C) 15 D) 20 E) 30

8.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[BG] \perp [GC]$

$|AG| = 10$ br

$\Rightarrow |BC| = x = ?$

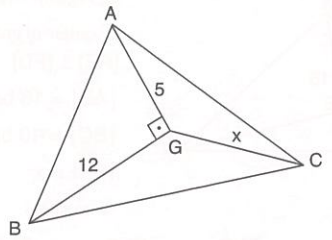
A) 5 B) 10 C) 15 D) 20 E) 30

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

9.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AG] \perp [GB]$

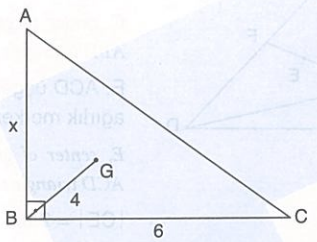
$|AG| = 5$ br

$|BG| = 12$ br

$\Rightarrow |GC| = x = ?$

A) 5 B) 12 C) 13 D) 20 E) $\frac{26}{3}$

10.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AB] \perp [BC]$

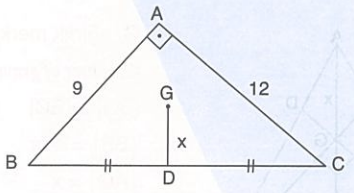
$|BG| = 4$ br

$|BC| = 6$ br

$\Rightarrow |AB| = x = ?$

A) 6 B) 10 C) 12 D) $6\sqrt{3}$ E) 20

11.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|AB| = 9$ br

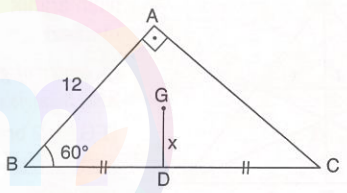
$|AC| = 12$ br

$|BD| = |DC|$

$\Rightarrow |GD| = x = ?$

A) 15 B) $\frac{15}{2}$ C) 5 D) $\frac{5}{2}$ E) 2

12.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[BA] \perp [AC]$

$|BD| = |DC|$

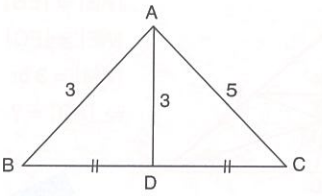
$|AB| = 12$ br

$m(\widehat{ABC}) = 60°$

$\Rightarrow |GD| = x = ?$

A) $\sqrt{3}$ B) 4 C) 6 D) $6\sqrt{3}$ E) $12\sqrt{3}$

13.



$|BD| = |DC|$

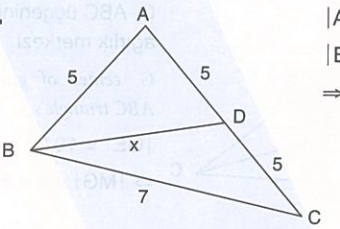
$|AB| = |AD| = 3$ br

$|AC| = 5$ br

$\Rightarrow |BC| = ?$

A) $4\sqrt{2}$ B) 4 C) $3\sqrt{2}$ D) 3 E) 2

14.



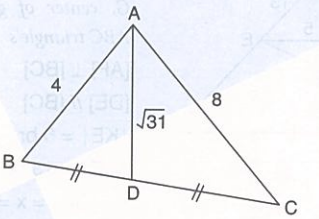
$|AB| = |AD| = |DC| = 5$ br

$|BC| = 7$ br

$\Rightarrow |BD| = x = ?$

A) $2\sqrt{3}$ B) 8 C) $4\sqrt{3}$ D) 6 E) 2

15.



$|BD| = |DC|$

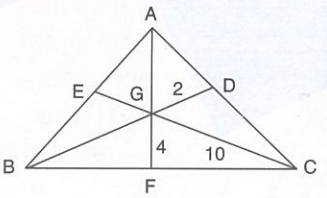
$2|AB| = |AC| = 8$ br

$|AD| = \sqrt{31}$ br

$\Rightarrow |BC| = ?$

A) 3 B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) 6 E) 12

16.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|GD| = 2$ br

$|GF| = 4$ br

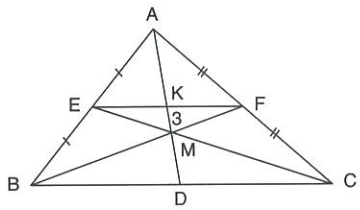
$|GC| = 10$ br

$\Rightarrow |AB| = ?$

A) $\sqrt{15}$ B) $2\sqrt{15}$ C) $4\sqrt{15}$ D) 15 E) 30

PUZA YAYINLARI

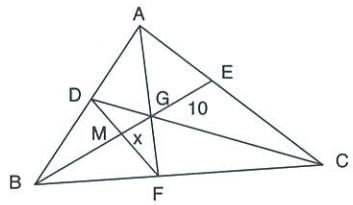
1.



|AE| = |EB|
|AF| = |FC|
|KM| = 3 br
⇒ |AD| = ?

A) 6 B) 9 C) 15 D) 18 E) 24

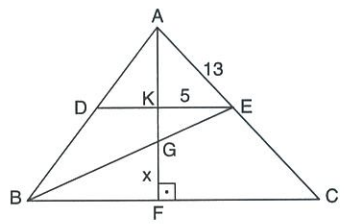
2.



G, ABC üçgeninin ağırlık merkezi
G, center of gravity ABC triangle's
|GE| = 10 br
⇒ |MG| = x = ?

A) 5 B) 10 C) 15 D) 25 E) 30

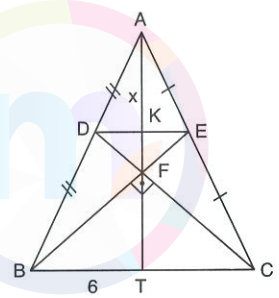
3.



G, ABC üçgeninin ağırlık merkezi
G, center of gravity ABC triangle's
[AF] ⊥ [BC]
[DE] // [BC]
|KE| = 5 br
|AE| = 13 br
⇒ |GF| = x = ?

A) 4 B) 8 C) 12 D) 16 E) 20

4.



|AD| = |DB|
|AE| = |EC|
[BF] ⊥ [FC]
|BT| = 6 br
⇒ |AK| = x = ?

A) 3 B) 6 C) 8 D) 9 E) 12

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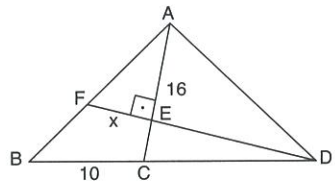
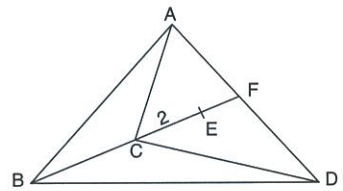
5.



E, Ağırlık merkezi
E, center of gravity
[AE] ⊥ [FD]
|AE| = 16 br
|BC| = 10 br
|FE| = x
⇒ x = ?

A) 12 B) 6 C) 5 D) 3 E) 2

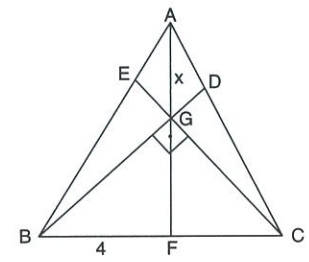
6.



C, ABD üçgeninin ağırlık merkezi
C, center of gravity ABD triangle's
E, ACD üçgeninin ağırlık merkezi
E, center of gravity ACD triangle's
|CE| = 2 br
⇒ |BC| = ?

A) 3 B) 6 C) 9 D) 10 E) 12

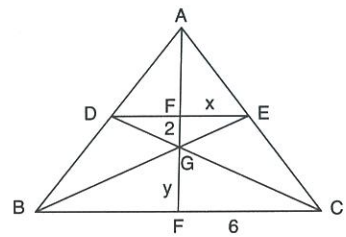
7.



G, ağırlık merkezi
G, center of gravity
[BG] ⊥ [EC]
|BF| = 4 br
|AG| = x
⇒ x = ?

A) 1 B) 2 C) 4 D) 6 E) 8

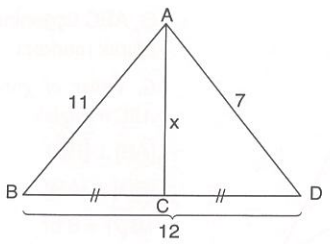
8.



G, ABC üçgeninin ağırlık merkezi
G, center of gravity ABC triangle's
|FG| = 2 br
|FC| = 6 br
|FE| = x
|GF| = y
⇒ x + y = ?

A) 6 B) 7 C) 9 D) 10 E) 12

9.



[AC] kenarortay

[AC] median

$|BC| = |CD|$

$|AD| = 7$ br

$|AB| = 11$ br

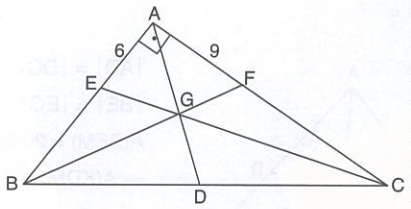
$|BD| = 12$ br

$|AC| = x$

$\Rightarrow x = ?$

A) 7 B) 6 C) 5 D) $2\sqrt{7}$ E) $2\sqrt{6}$

10.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[BA] \perp [AC]$

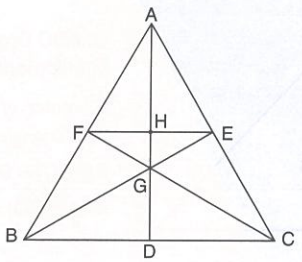
$|AE| = 6$ br

$|AF| = 9$ br

$\Rightarrow |DG| = ?$

A) $\sqrt{13}$ B) $2\sqrt{13}$ C) $2\sqrt{3}$ D) 10 E) 15

11.



G, ağırlık merkezi

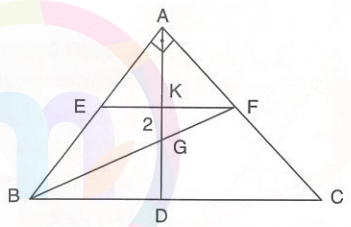
G, center of gravity

$|GD| = 3$ br

$\Rightarrow |AD| = ?$

A) 9 B) 8 C) 6 D) 4 E) 3

12.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[BA] \perp [AC]$

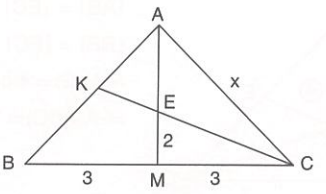
$[EF] \,//\, [BC]$

$|KG| = 2$ br

$\Rightarrow |KF| = ?$

A) 2 B) 3 C) 4 D) 6 E) 12

13.



$2|AK| = 2|KB| = 5$ br

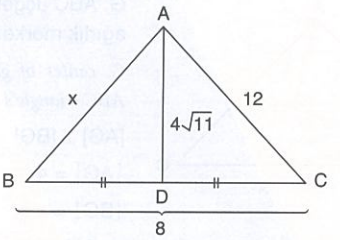
$|BM| = |MC| = 3$ br

$|EM| = 2$ br

$\Rightarrow |AC| = x = ?$

A) 4 B) $\sqrt{19}$ C) 5 D) $\sqrt{29}$ E) $\sqrt{65}$

14.



$|BD| = |DC|$

$|AC| = 12$ br

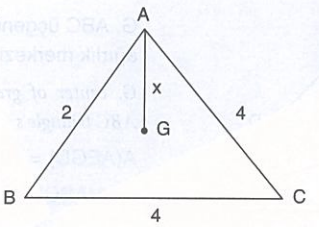
$|BC| = 8$ br

$|AD| = 4\sqrt{11}$ br

$\Rightarrow |AB| = x = ?$

A) 4 B) $2\sqrt{15}$ C) 8 D) 10 E) $4\sqrt{15}$

15.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

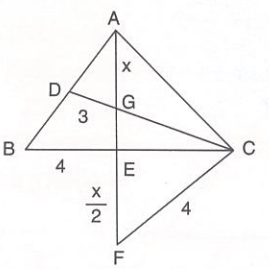
$|AB| = 2$ br

$|AC| = |BC| = 4$ br

$\Rightarrow |AG| = x = ?$

A) $\frac{\sqrt{6}}{3}$ B) $\sqrt{6}$ C) $\frac{2\sqrt{6}}{3}$ D) $2\sqrt{6}$ E) 12

16.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|BE| = |FC| = 4$ br

$|DG| = 3$ br

$|EF| = \frac{x}{2}$

$\Rightarrow |AG| = x = ?$

A) $\sqrt{10}$ B) $2\sqrt{10}$ C) 7 D) 10 E) $4\sqrt{10}$

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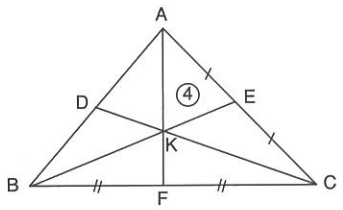
1.



$|AE| = |EC|$

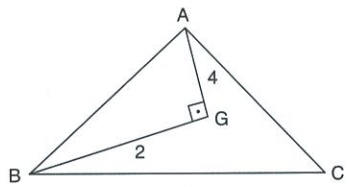
$|BF| = |FC|$

$A(AKE) = 4\ br^2$

$\Rightarrow A(ABC) = ?$

A) 8 B) 16 C) 24 D) 48 E) 96

2.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AG] \perp [BG]$

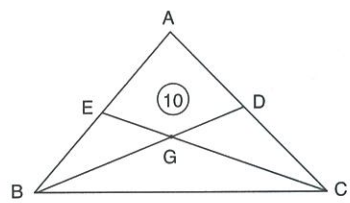
$|AG| = 4$ br

$|BG| = 2$ br

$\Rightarrow A(ABC) = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

3.



G, ABC üçgeninin ağırlık merkezi

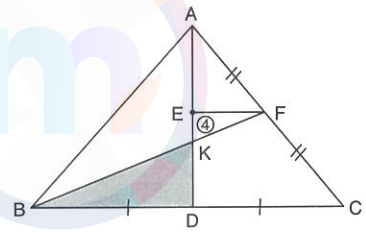
G, center of gravity ABC triangle's

$A(AEGD) = 10\ br^2$

$\Rightarrow A(ABC) = ?$

A) 5 B) 10 C) 15 D) 30 E) 60

4.



$|AF| = |FC|$

$|BD| = |DC|$

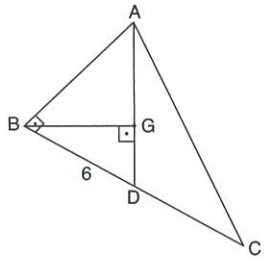
$[EF] \,//\, [BC]$

$A(EKF) = 4\ br^2$

$\Rightarrow A(KBD) = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

5.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AB] \perp [BC]$

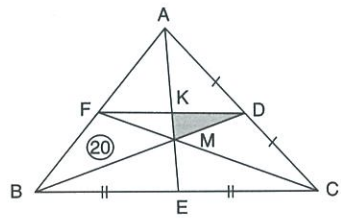
$[BG] \perp [AD]$

$|BD| = 6$ br

$\Rightarrow |AB| = ?$

A) $4\sqrt{3}$ B) $2\sqrt{2}$ C) $6\sqrt{3}$ D) 36 E) $6\sqrt{2}$

6.



$|AD| = |DC|$

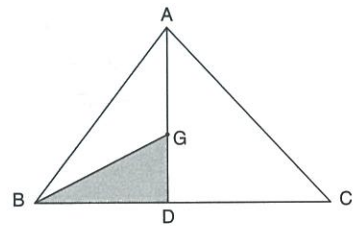
$|BE| = |EC|$

$A(BFM) = 20\ br^2$

$\Rightarrow A(KDM) = ?$

A) 5 B) 10 C) 15 D) 20 E) 40

7.



G, ABC üçgeninin ağırlık merkezi

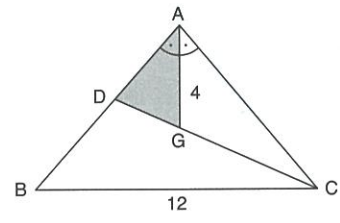
G, center of gravity ABC triangle's

$A(ABC) = 90\ br^2$

$\Rightarrow A(BGD) = ?$

A) 4 B) 5 C) 10 D) 12 E) 15

8.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$m(\widehat{BAG}) = m(\widehat{GAC})$

$|AG| = 4$ br

$|BC| = 12$ br

$\Rightarrow A(ADG) = ?$

A) 2 B) 3 C) 6 D) 9 E) 12

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PUZA YAYINLARI

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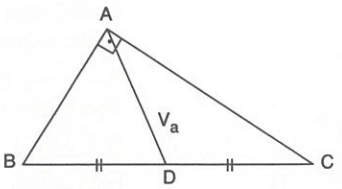
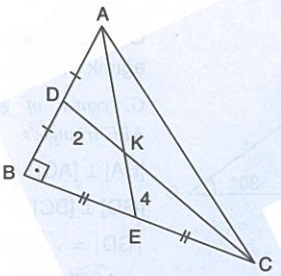
9.



$[BA] \perp [AC]$
$|BD| = |DC|$
$V_b = 4$ br
$V_c = 3$ br
$\Rightarrow |AD| = V_a = ?$

A) $\frac{\sqrt{5}}{2}$ B) $\sqrt{5}$ C) $2\sqrt{5}$ D) 5 E) 10

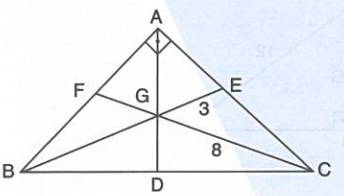
10.



V_b, [AC] kenarına ait kenarortay
V_b, median of [AC]
$[AB] \perp [BC]$
$|AD| = |BD|$
$|BE| = |EC|$
$|DK| = 2$ br
$|KE| = 4$ br
$\Rightarrow V_b = ?$

A) $\sqrt{5}$ B) 6 C) $3\sqrt{5}$ D) 10 E) $10\sqrt{2}$

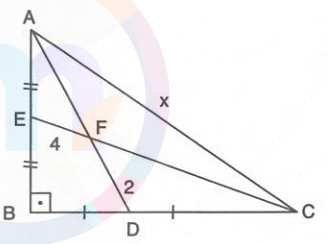
11.



G, ABC üçgeninin ağırlık merkezi
G, center of gravity ABC triangle's
$[BA] \perp [AC]$
$|GE| = 3$ br
$|GC| = 8$ br
$\Rightarrow |BC| = x = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $3\sqrt{5}$ D) $6\sqrt{5}$ E) 15

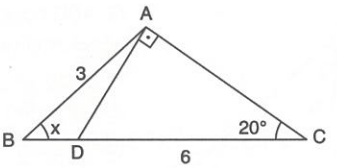
12.



$|AE| = |EB|$
$|BD| = |DC|$
$[AB] \perp [BC]$
$|FD| = 2$ br
$|EF| = 4$ br
$\Rightarrow |AC| = x = ?$

A) 15 B) 12 C) $6\sqrt{5}$ D) 10 E) 20

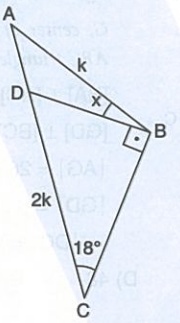
13.



$[DA] \perp [AC]$
$2|AB| = |DC| = 6$ br
$m(\widehat{ACB}) = 20°$
$\Rightarrow m(\widehat{ABC}) = x = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

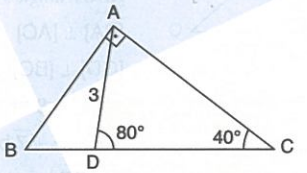
14.



$2|AB| = |DC|$
$[DB] \perp [DC]$
$m(\widehat{ACB}) = 18°$
$\Rightarrow m(\widehat{ABD}) = x = ?$

A) 9 B) 18 C) 36 D) 48 E) 54

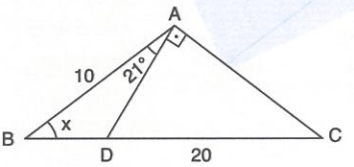
15.



$[BA] \perp [AC]$
$m(\widehat{ADC}) = 80°$
$m(\widehat{ACB}) = 40°$
$|AD| = 3$ br
$\Rightarrow |BC| = ?$

A) 3 B) 6 C) 9 D) 12 E) 15

16.

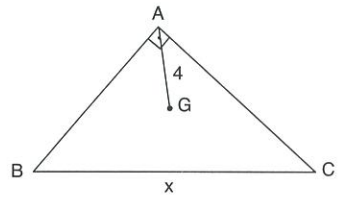


$[DA] \perp [AC]$
$|AB| = 10$ br
$|DC| = 20$ br
$m(\widehat{BAD}) = 21°$
$\Rightarrow m(\widehat{ABC}) = x = ?$

A) 42 B) 43 C) 44 D) 45 E) 46

PUZA YAYINLARI

1.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

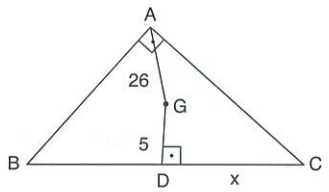
[BA] ⊥ [AC]

|AG| = 4 br

⇒ |BC| = x = ?

A) 12 B) 9 C) 6 D) 4 E) 3

2.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[BA] ⊥ [AC]

[GD] ⊥ [BC]

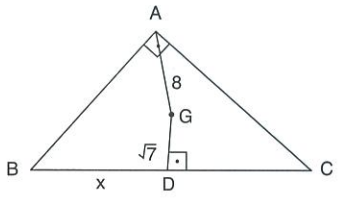
|AG| = 26 br

|GD| = 5 br

⇒ |DC| = x = ?

A) 13 B) 26 C) 39 D) 48 E) 51

3.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[BA] ⊥ [AC]

[GD] ⊥ [BC]

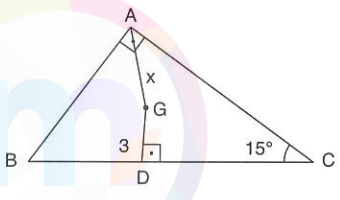
|AG| = 8 br

|GD| = $\sqrt{7}$ br

⇒ |BD| = x = ?

A) 3 B) 6 C) 9 D) 12 E) 16

4.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[BA] ⊥ [AC]

[GD] ⊥ [BC]

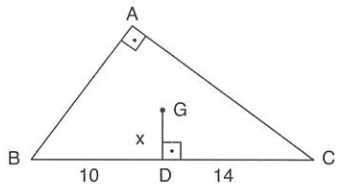
m(ACB) = 15°

|GD| = 3 br

⇒ |AG| = x = ?

A) 12 B) 6 C) $\sqrt{6}$ D) $2\sqrt{3}$ E) $\sqrt{3}$

5.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[BA] ⊥ [AC]

[GD] ⊥ [BC]

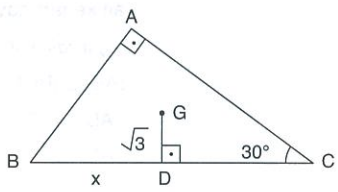
|BD| = 10 br

|DC| = 14 br

⇒ |GD| = x = ?

A) 1 B) 2 C) $\sqrt{3}$ D) 3 E) $2\sqrt{3}$

6.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[BA] ⊥ [AC]

[GD] ⊥ [BC]

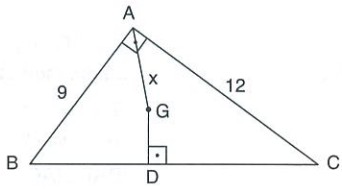
|GD| = $\sqrt{3}$ br

m(ACB) = 30°

⇒ |BD| = x = ?

A) 1 B) 2 C) 5 D) 6 E) 12

7.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[BA] ⊥ [AC]

[GD] ⊥ [BC]

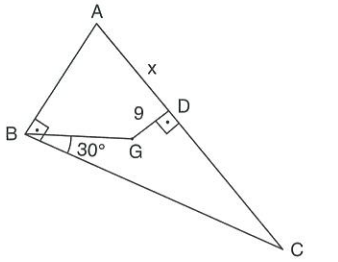
|AB| = 9 br

|AC| = 12 br

⇒ |AG| = x = ?

A) 5 B) $\frac{15}{2}$ C) 15 D) $\frac{5}{2}$ E) $\frac{5}{4}$

8.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[AB] ⊥ [BC]

[GD] ⊥ [AC]

m(GBC) = 30°

|GD| = 9 br

⇒ |AD| = x = ?

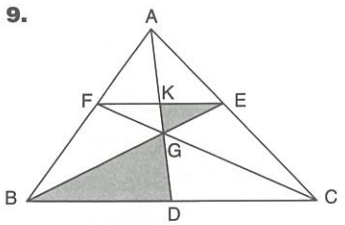
A) $3\sqrt{3}$ B) $6\sqrt{3}$ C) $9\sqrt{3}$ D) $12\sqrt{3}$ E) $15\sqrt{3}$

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

9.



G, ABC üçgeninin ağırlık merkezi

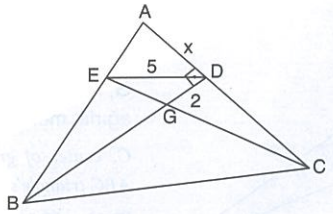
G, center of gravity ABC triangle's

A(KEG)+A(BDG)=15 br^2

$\Rightarrow$ A(ABC) = ?

A) 96 B) 72 C) 54 D) 36 E) 32

10.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[AD] $\perp$ [BD]

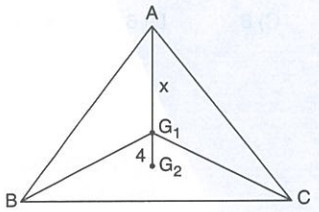
|ED| = 5 br

|GD| = 2 br

$\Rightarrow$ |AD| = x = ?

A) 5 B) 6 C) 8 D) 10 E) 12

11.



G_1, ABC üçgeninin ağırlık merkezi

G_1, center of gravity ABC triangle's

G_2, BCG_1 üçgeninin ağırlık merkezi

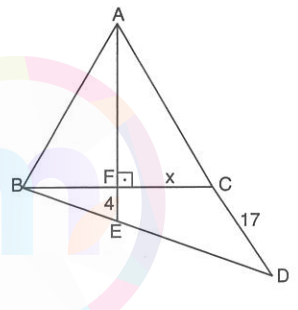
G_2, center of gravity BCG_1 triangle's

$|G_1G_2|$ = 4 br

$\Rightarrow$ $|AG_1|$ = x = ?

A) 3 B) 6 C) 9 D) 12 E) 15

12.



[AF] $\perp$ [BC]

F, ağırlık merkezi

F, center of gravity

|FE| = 4 br

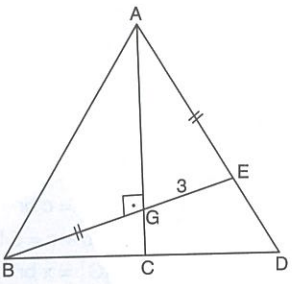
|DC| = 17 br

|FC| = x

$\Rightarrow$ x = ?

A) 17 B) $\frac{15}{2}$ C) $\frac{17}{2}$ D) 8 E) 15

13.



G, ABD üçgeninin ağırlık merkezi

G, center of gravity ABD triangle's

[AG] $\perp$ [BE]

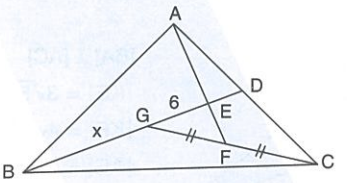
|AE| = |BG|

|GE| = 3 br

$\Rightarrow$ |BC| = ?

A) $\frac{2}{3}\sqrt{3}$ B) $2\sqrt{13}$ C) $\sqrt{13}$ D) $\frac{3}{2}\sqrt{19}$ E) $\frac{\sqrt{19}}{2}$

14.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

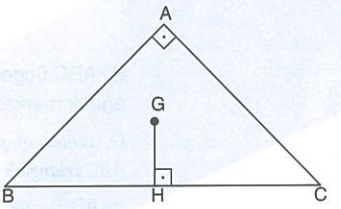
|GF| = |FC|

|GE| = 6 br

$\Rightarrow$ |BG| = x = ?

A) 3 B) 6 C) 9 D) 12 E) 18

15.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[GH] $\perp$ [BC]

[BA] $\perp$ [AC]

|BH| = 15 br

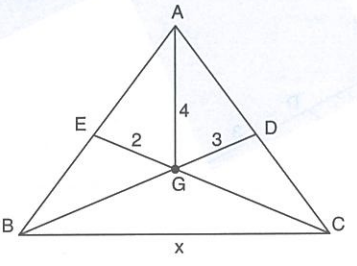
|HC| = 9 br

|GH| = x

$\Rightarrow$ x = ?

A) $\sqrt{5}$ B) $\sqrt{7}$ C) 5 D) 8 E) 4

16.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

|AG| = 4 br

|GD| = 3 br

|EG| = 2 br

|BC| = x

$\Rightarrow$ x = ?

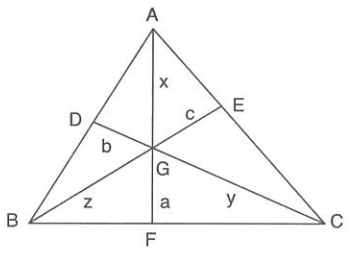
A) $4\sqrt{11}$ B) $2\sqrt{7}$ C) $\sqrt{17}$ D) $2\sqrt{22}$ E) $\sqrt{22}$

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

1.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|GF| = a$ br

$|GD| = b$ br

$|GE| = c$ br

$a + b + c = 5$ br

$|AG| = x$ br

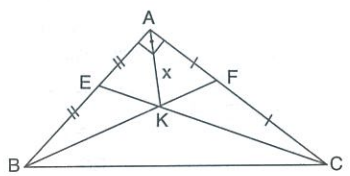
$|GC| = y$ br

$|BG| = z$ br

$\Rightarrow x + y + z = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

2.



$[BA] \perp [AC]$

$|KE| = 3\sqrt{5}$ br

$|KF| = 4\sqrt{5}$ br

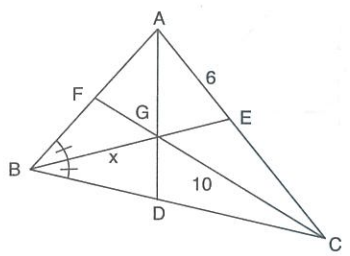
$|AE| = |EB|$

$|AF| = |FC|$

$\Rightarrow |AK| = x = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

3.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$m(\widehat{ABE}) = m(\widehat{EBC})$

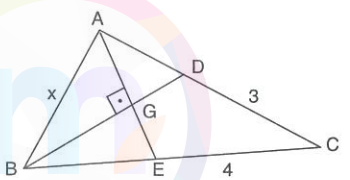
$|GC| = 10$ br

$|AE| = 6$ br

$\Rightarrow |BG| = x = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

4.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AG] \perp [BG]$

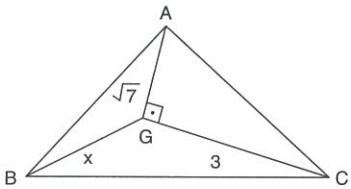
$|DC| = 3$ br

$|EC| = 4$ br

$\Rightarrow |AB| = x = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) 5 D) $5\sqrt{2}$ E) 10

5.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[AG] \perp [GC]$

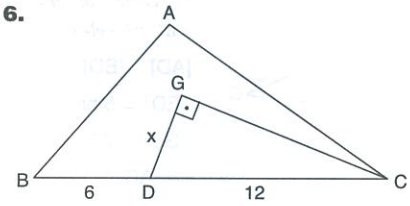
$|AG| = \sqrt{7}$ br

$|GC| = 3$ br

$\Rightarrow |BG| = x = ?$

A) 4 B) 5 C) $\sqrt{20}$ D) 6 E) $2\sqrt{29}$

6.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[DG] \perp [GC]$

$|AB| = |AC|$

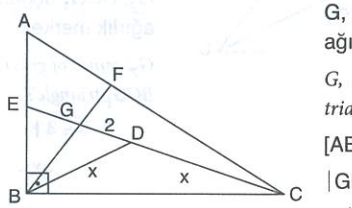
$|BD| = 6$ br

$|DC| = 12$ br

$\Rightarrow |GD| = x = ?$

A) 12 B) 9 C) 8 D) 6 E) 4

7.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

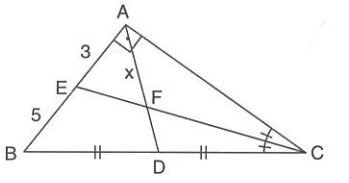
$[AB] \perp [BC]$

$|GD| = 2$ br

$\Rightarrow |BD| = |DC| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

8.



$[BA] \perp [AC]$

$m(\widehat{ACE}) = m(\widehat{ECB})$

$|BD| = |DC|$

$|AE| = 3$ br

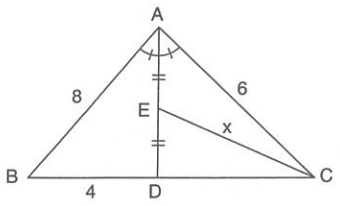
$|EB| = 5$ br

$\Rightarrow |AF| = x = ?$

A) $\frac{10}{3}$ B) $\frac{30}{11}$ C) 2 D) 4 E) 5

PUZA YAYINLARI

9.



$m(\widehat{BAD}) = m(\widehat{DAC})$

$|AE| = |ED|$

$|AB| = 8$ br

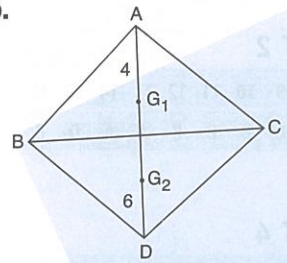
$|AC| = 6$ br

$|BD| = 4$ br

$\Rightarrow |EC| = x = ?$

A) 2 B) 4 C) $\sqrt{10}$ D) $\frac{3\sqrt{6}}{2}$ E) 8

10.



G_1, ABC üçgeninin ağırlık merkezi

G_1 center of gravity ABC triangle's

G_2, BDC üçgeninin ağırlık merkezi

G_2 center of gravity BDC triangle's

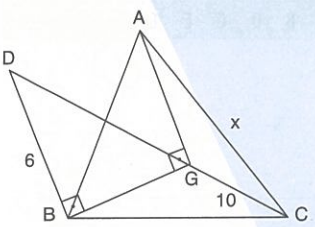
$|AG_1| = 4$ br

$|DG_2| = 6$ br

$\Rightarrow |G_1G_2| = ?$

A) 2 B) 3 C) 5 D) 10 E) 20

11.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[DB] \perp [BG]$

$[BG] \perp [GA]$

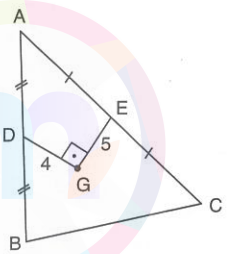
$|DB| = 6$ br

$|GC| = 10$ br

$\Rightarrow |AC| = x = ?$

A) 6 B) $2\sqrt{13}$ C) 8 D) 10 E) $4\sqrt{13}$

12.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$[DG] \perp [GE]$

$|AD| = |DB|$

$|AE| = |EC|$

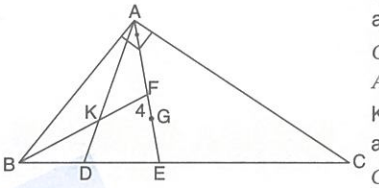
$|DG| = 4$ br

$|GE| = 5$ br

$\Rightarrow A(ABC) = ?$

A) 20 B) 60 C) 80 D) 100 E) 120

13.



G, ABC üçgeninin ağırlık merkezi

G center of gravity ABC triangle's

K, ABE üçgeninin ağırlık merkezi

G_2 center of gravity ABE triangle's

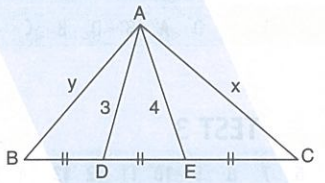
$[BA] \perp [AC]$

$|FG| = 4$ br

$\Rightarrow |DE| = ?$

A) 4 B) 6 C) 8 D) 12 E) 16

14.



$|BD| = |DE| = |EC|$

$|AD| = 3$ br

$|AE| = 4$ br

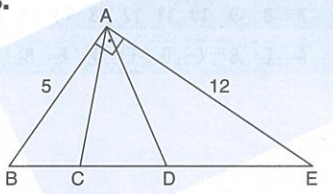
$|AC| = x$

$|AB| = y$

$\Rightarrow x^2 - y^2 = ?$

A) 7 B) 14 C) 21 D) 28 E) 35

15.



$[BA] \perp [AE]$

$|AB| = 5$ br

$|AE| = 12$ br

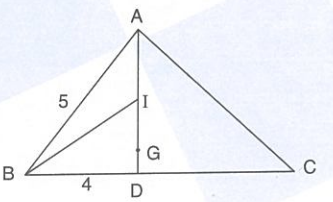
$m(\widehat{BAC}) = 45°$

$|BD| = |DE|$

$\Rightarrow |BC| = ?$

A) $\frac{65}{13}$ B) $\frac{13}{2}$ C) $\frac{13}{7}$ D) $\frac{17}{3}$ E) $\frac{65}{17}$

16.



I, ABC üçgeninin iç teğet çemberinin merkezi

I is the inner tangential circle of ABC triangle

G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$|AB| = 5$ br $|BD| = 4$ br $\Rightarrow \frac{|IG|}{|GD|} = ?$

A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{2}{3}$ D) 1 E) 2

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PUZA YAYINLARI
PUZA YAYINLARI

KENARORTAY MEDIAN
Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	E	D	A	D	E	A	C	D	A	B	D	B	C	D	B

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	D	D	C	D	B	B	C	D	D	B	A	A	D	B

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	A	B	D	D	B	E	B	A	A	A	D	E	E	C	B

TEST 4

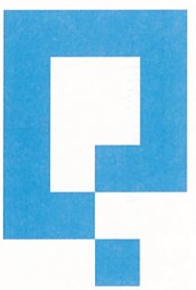
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	D	D	E	A	E	C	B	B	D	B	D	C	B	E

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	E	C	A	E	C	A	E	B	C	D	E	D	E	B	D

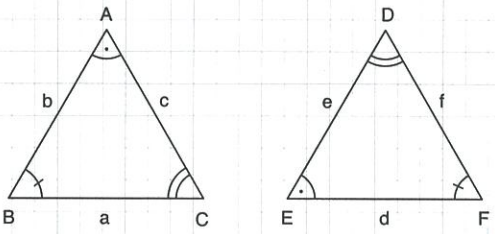
TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	B	D	B	A	D	E	B	D	C	E	E	D	C	E	B



ÜÇGENDE BENZERLİK
TRIANGLE SIMILARITIES

ÖZELLİK | Property 1



$ABC \sim EFD$

$ABC \simeq EFD$

1. $m(\widehat{A}) = m(\widehat{E})$
   $m(\widehat{B}) = m(\widehat{F})$
   $m(\widehat{C}) = m(\widehat{D})$

2. $\frac{|AB|}{|EF|} = \frac{|BC|}{|FD|} = \frac{|AC|}{|ED|} = k$

   $\frac{b}{d} = \frac{a}{f} = \frac{c}{e} = k$

   $k \in R^+$ k, oran sabiti
   k, ratio constant

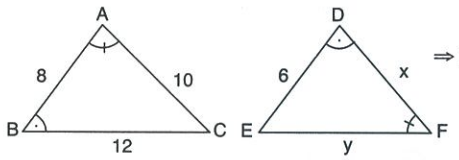
1. $m(\widehat{A}) = m(\widehat{E})$
   $m(\widehat{B}) = m(\widehat{F})$
   $m(\widehat{C}) = m(\widehat{D})$

2. $\frac{|AB|}{|EF|} = \frac{|BC|}{|FD|} = \frac{|AC|}{|ED|} = 1$

   $\frac{b}{d} = \frac{a}{f} = \frac{c}{e} = 1$

   $b = d,\ a = f,\ c = e$

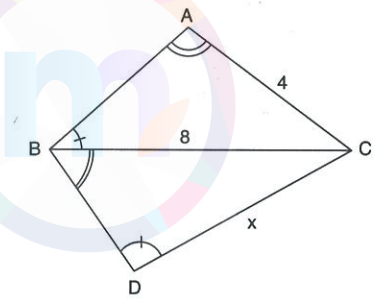
1.



$\Rightarrow x + y = ?$

9

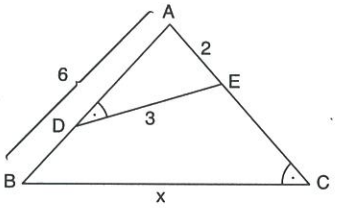
2.



$\Rightarrow x = ?$

16

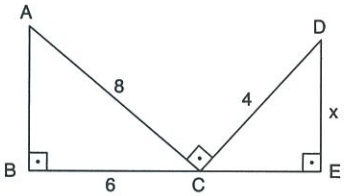
3.



$\Rightarrow x = ?$

9

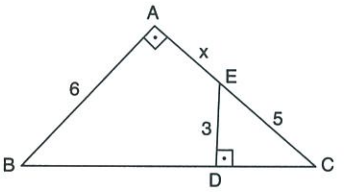
4.



$\Rightarrow x = ?$

3

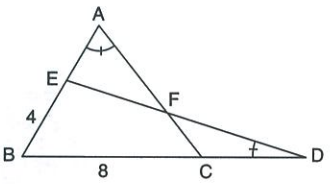
5.



$\Rightarrow x = ?$

3

6.

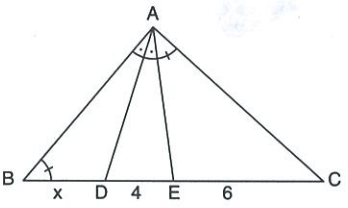


$|ED| = 10$ br

$\Rightarrow |AC| = ?$

20

7.



$\Rightarrow x = ?$

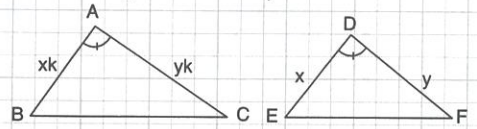
$\frac{20}{3}$

PUZA YAYINLARI

ÖZELLİK | Property 2

Kenar-Açı-Kenar Benzerliği

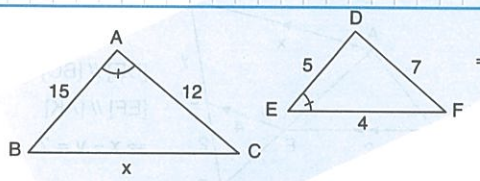
Line-Angle-Line Similarity



$$\frac{Ç(ABC)}{Ç(DEF)} = \frac{xk}{x} = \frac{yk}{y} = \frac{|BC|}{|EF|} = k$$

$$\frac{Ç(ABC)}{Ç(DEF)} = \frac{h_a}{h_d} = \frac{V_b}{V_e} = \frac{n_c}{n_f} = k, \quad \frac{A(ABC)}{A(DEF)} = k^2$$

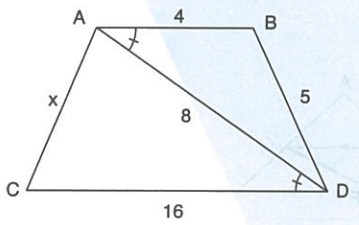
1.



⇒ x = ?

21

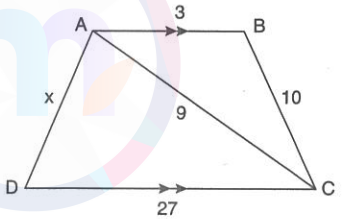
2.



⇒ x = ?

10

3.

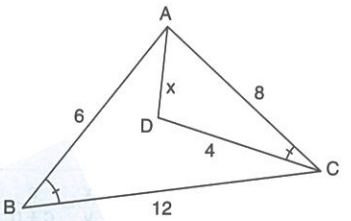


[AB] // [CD]

⇒ x = ?

30

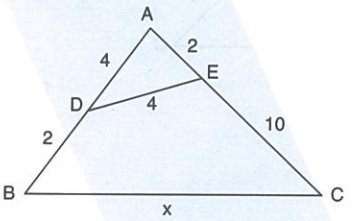
4.



⇒ x = ?

$\frac{16}{3}$

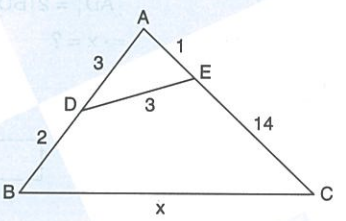
5.



⇒ x = ?

12

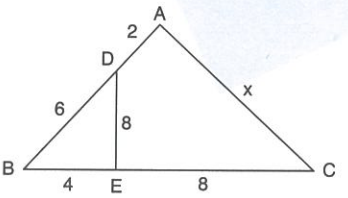
6.



⇒ x = ?

15

7.

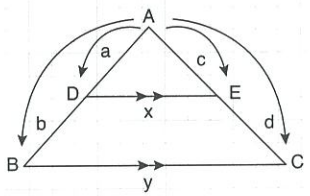


⇒ x = ?

16

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK | Property 3



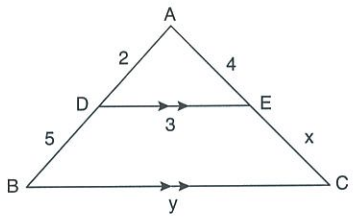
[DE] // [BC]

$$\frac{a}{b}=\frac{c}{d}$$

$$\frac{a}{a+b}=\frac{x}{y}=\frac{c}{c+d}$$

PUZA YAYINLARI

1.

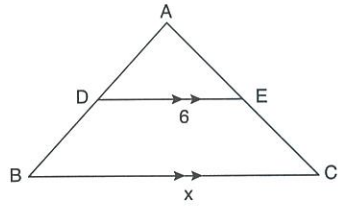


[DE] // [BC]

⇒ x + y = ?

$\frac{41}{2}$

2.



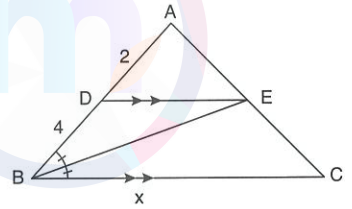
[DE] // [EC]

|AD| = 2|BD|

⇒ x = ?

9

3.

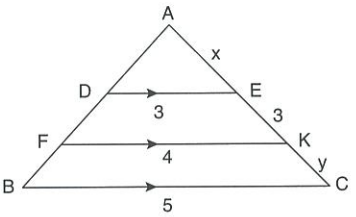


[DE] // [BC]

⇒ x = ?

12

4.

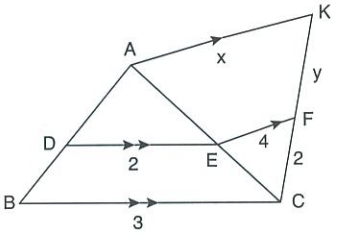


[DE] // [FK] // [BC]

⇒ x – y = ?

6

5.



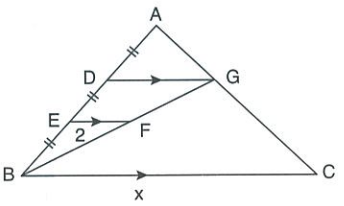
[DE] // [BC]

[EF] // [AK]

⇒ x – y = ?

8

6.

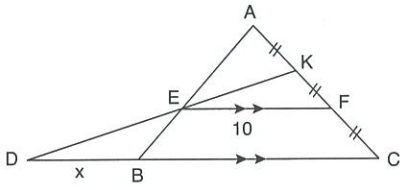


[DG] // [EF] // [BC]

⇒ x = ?

12

7.

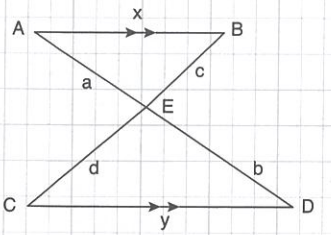


[EF] // [DC]

⇒ x = ?

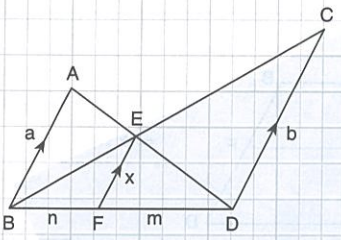
5

ÖZELLİK | Property 4



[AB] // [CD]

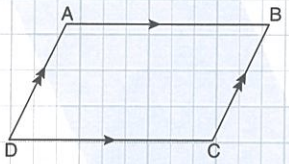
$$\frac{x}{y}=\frac{a}{b}=\frac{c}{d}$$



[AB] // [EF] // [CD]

$$\frac{1}{x}=\frac{1}{a}+\frac{1}{b}$$

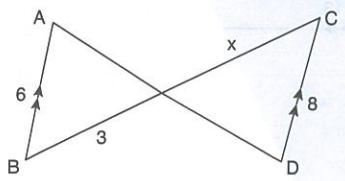
$$b \cdot n = m \cdot a$$



ABCD paralelkenar

[AB] // [DC]
[AD] // [BC]
|ABI = |DCI, |ADI = |BCI

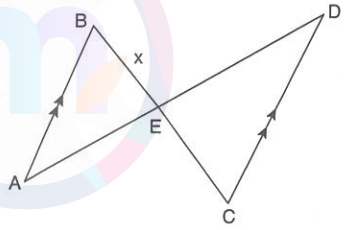
1.



[AB] // [CD]
⇒ x = ?

4

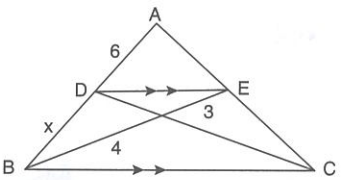
2.



[AB] // [CD]
|ED| = 3|AE|
|BC| = 16 br
⇒ x = ?

4

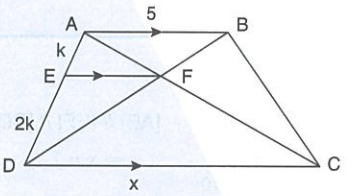
3.



[DE] // [BC]
⇒ x = ?

2

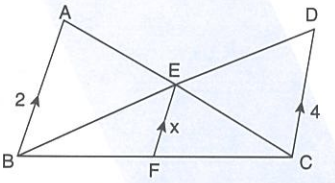
4.



[AB] // [CD] // [EF]
⇒ x = ?

10

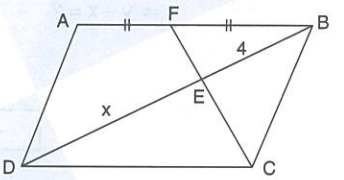
5.



[AB] // [EF] // [CD]
⇒ x = ?

$\frac{4}{3}$

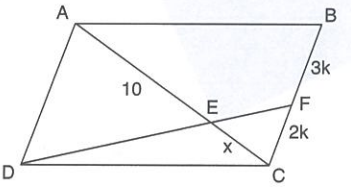
6.



ABCD paralelkenar
ABCD parallelogram
⇒ x = ?

8

7.

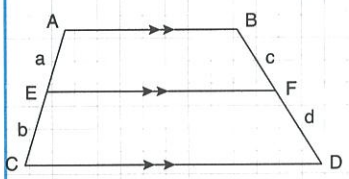


ABCD
paralelkenar
ABCD
parallelogram
⇒ x = ?

4

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

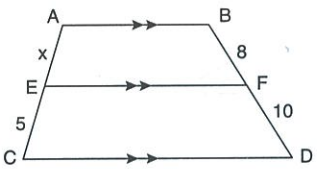
ÖZELLİK|Property 5



[AB] // [EF] // [CD]

$$\frac{a}{b}=\frac{c}{d}$$

1.

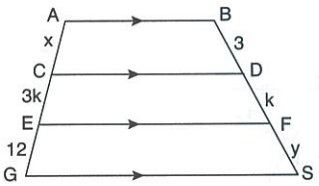


[AB] // [EF] // [CD]

⇒ x = ?

4

2.

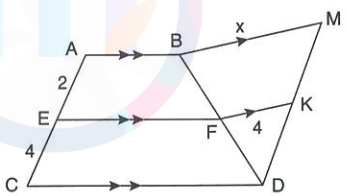


[AB] // [CD] // [EF] // [GS]

⇒ y – x = ?

– 5

3.



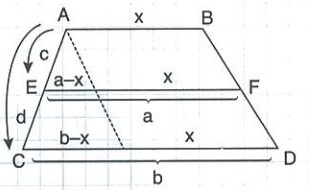
[BM] // [FK]

[AB] // [EF] // [CD]

⇒ x = ?

6

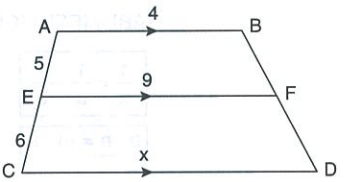
ÖZELLİK|Property 6



[AB] // [EF] // [CD]

$$\frac{c}{c+d}=\frac{a-x}{b-x}$$

1.

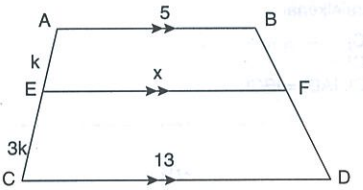


[AB] // [EF] // [CD]

⇒ x = ?

15

2.

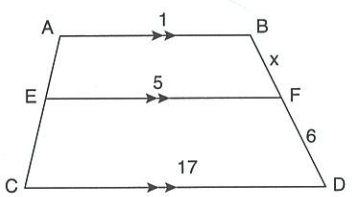


[AB] // [EF] // [CD]

⇒ x = ?

7

3.



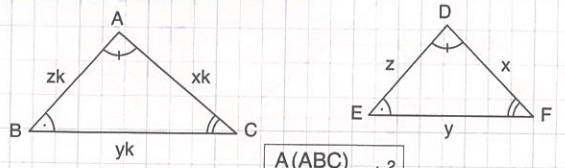
[AB] // [EF] // [CD]

⇒ x = ?

2

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

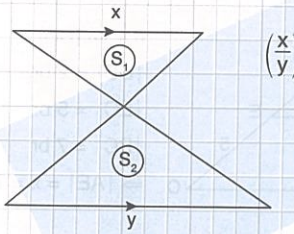
ÖZELLİK|Property 7



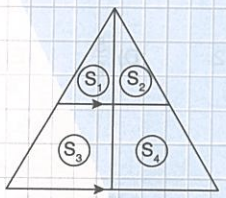
$$\frac{A(ABC)}{A(DEF)} = k^2$$

Benzerlik oranının karesi alanları oranını verir.

The square of the similarity ratio gives the ratio of the areas.

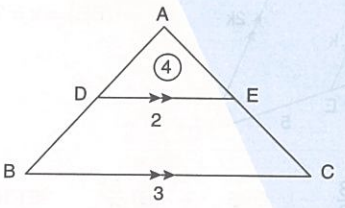


$$\left(\frac{x}{y}\right)^2 = \frac{S_1}{S_2}$$



$$\frac{S_1}{S_3} = \frac{S_2}{S_4}$$

1.

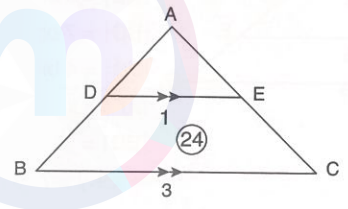


[DE] // [BC]

⇒ A(DECB) = ?

5

2.

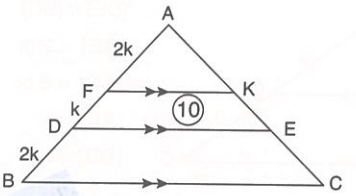


[DE] // [BC]

⇒ A(ADE) = ?

3

3.

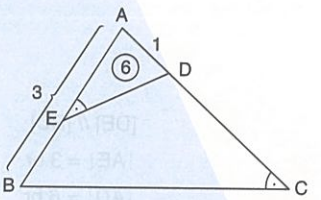


[FK] // [DE] // [BC]

A(DECB) = ?

32

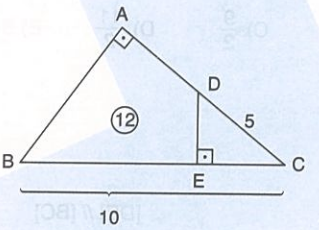
4.



⇒ A(EDCB) = ?

48

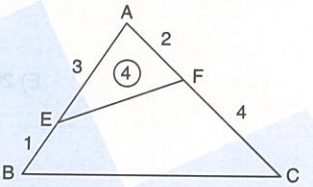
5.



⇒ A(DEC) = ?

4

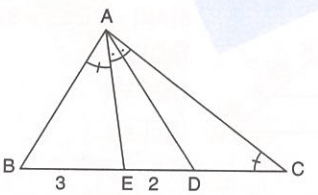
6.



⇒ A(EFCB) = ?

12

7.

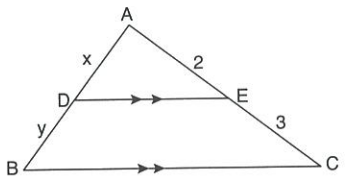


$$\Rightarrow \frac{A(ABE)}{A(ABC)} = ?$$

$\frac{9}{25}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

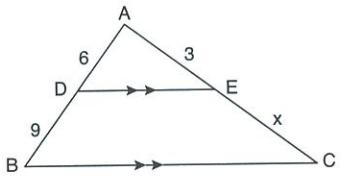
1.



[DE] // [BC]
|AE| = 2 br
|EC| = 3 br
|AD| = x
|DB| = y
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) 1 D) $\frac{3}{2}$ E) 3

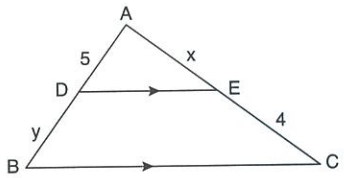
2.



[DE] // [BC]
|AE| = 3 br
|AD| = 6 br
|DB| = 9 br
⇒ |EC| = x = ?

A) 2 B) 3 C) $\frac{9}{2}$ D) $\frac{11}{2}$ E) 6

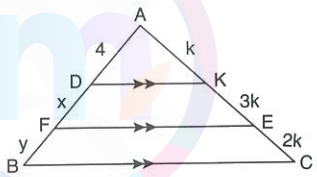
3.



[DE] // [BC]
|AD| = 5 br
|EC| = 4 br
|AE| = x
|DB| = y
⇒ x · y = ?

A) 2 B) 4 C) 5 D) 10 E) 20

4.

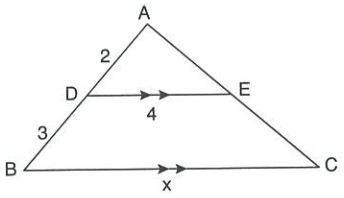


[DK] // [FE] // [BC]
6|AK| = 2|KE| = 3|EC|
|AD| = 4 br
|FD| = x
|BF| = y
⇒ x + y = ?

A) 4 B) 6 C) 8 D) 12 E) 20

PUZA YAYINLARI

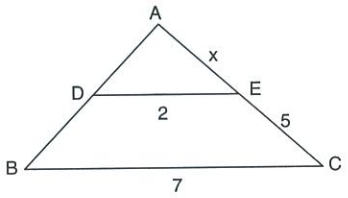
5.



[DE] // [BC]
2|AD| = |DE| = 4 br
|BD| = 3 br
⇒ |BC| = x = ?

A) 5 B) 6 C) 8 D) 10 E) 12

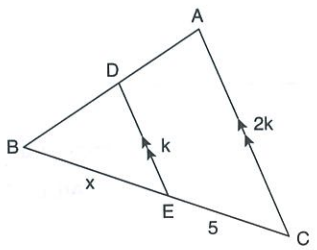
6.



[DE] // [BC]
|DE| = 2 br
|EC| = 5 br
|BC| = 7 br
⇒ |AE| = x = ?

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

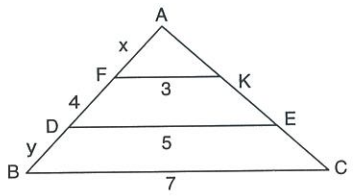
7.



[DE] // [AC]
2|DE| = |AC|
|EC| = 5 br
⇒ |BE| = x = ?

A) 2 B) $\frac{3}{2}$ C) 5 D) $\frac{5}{2}$ E) 10

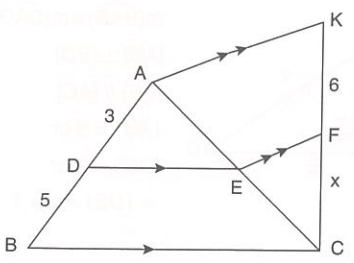
8.



[FK] // [DE] // [BC]
|FK| = 3 br
|DE| = 5 br
|BC| = 7 br
|FD| = 4 br
|AF| = x
|BD| = y
⇒ x + y = ?

A) 10 B) 8 C) 7 D) 5 E) 4

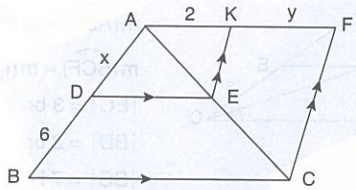
9.



[DE] // [BC]
[EF] // [AK]
2|AD| = |KF| = 6 br
|BD| = 5 br
⇒ |FC| = x = ?

A) $\frac{5}{2}$ B) 5 C) $\frac{15}{2}$ D) 10 E) 15

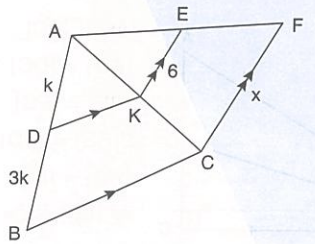
10.



[DE] // [BC]
[KE] // [FC]
|AK| = 2 br
|BD| = 6 br
|AD| = x
|KF| = y
⇒ x · y = ?

A) 12 B) 8 C) 6 D) 3 E) 2

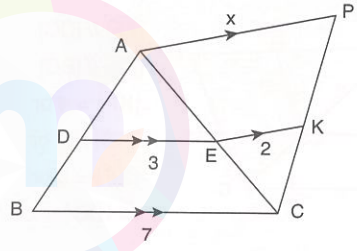
11.



[DK] // [BC]
[KE] // [FC]
3|AD| = |BD|
|KE| = 6 br
⇒ |CF| = x = ?

A) 9 B) 12 C) 18 D) 24 E) 30

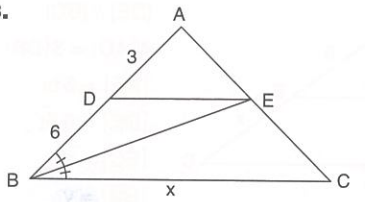
12.



[DE] // [BC]
[EK] // [AP]
|DE| = 3 br
|BC| = 7 br
|EK| = 2 br
⇒ |AP| = x = ?

A) $\frac{7}{4}$ B) $\frac{7}{2}$ C) 7 D) 14 E) 21

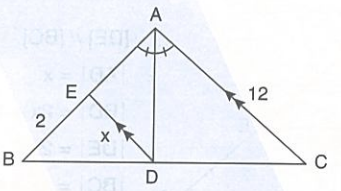
13.



[DE] // [BC]
2|AD| = |BD| = 6 br
⇒ |BC| = x = ?

A) 3 B) 6 C) 9 D) 12 E) 18

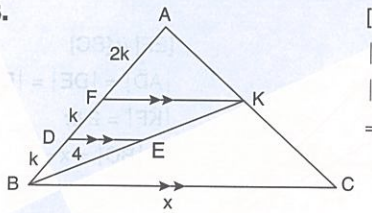
14.



[DE] // [AC]
m(BAD) = m(DAC)
|EB| = 2 br
|AC| = 12 br
⇒ |ED| = x = ?

A) 2 B) 3 C) 4 D) 5 E) 6

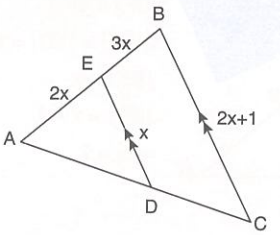
15.



[FK] // [DE] // [BC]
|AF| = 2|DF| = 2|BD|
|DE| = 4 br
⇒ |BC| = x = ?

A) 2 B) 4 C) 8 D) 16 E) 32

16.

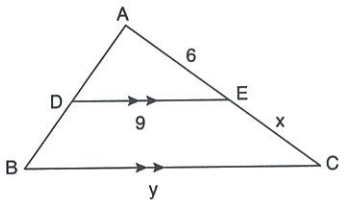


[ED] // [BC]
|EB| = 3x
|AE| = 2x
|ED| = x
|BC| = 2x + 1
⇒ x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

PUZA YAYINLARI

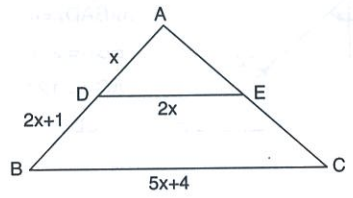
1.



[DE] // [BC]
4|AD| = 3|DB|
|AE| = 6 br
|DE| = 9 br
|EC| = x
|BC| = y
⇒ y – x = ?

A) 21 B) 18 C) 15 D) 13 E) 18

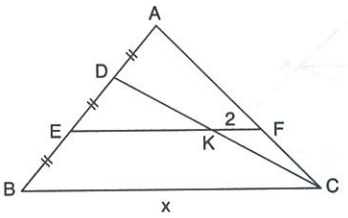
2.



[DE] // [BC]
|AD| = x
|BD| = 2x + 1
|DE| = 2x
|BC| = 5x + 4
⇒ |DE| = ?

A) 1 B) 2 C) 4 D) 6 E) 8

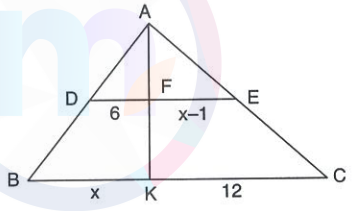
3.



[EF] // [BC]
|AD| = |DE| = |EB|
|KF| = 2 br
⇒ |BC| = x = ?

A) 5 B) 6 C) 8 D) 12 E) 16

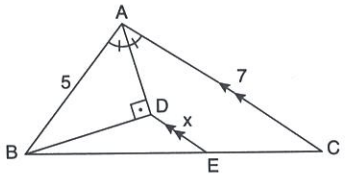
4.



[DE] // [BC]
2|DF| = |KC| = 12 br
|BK| = x
|FE| = x – 1
⇒ x = ?

A) 1 B) 3 C) 6 D) 9 D) 12

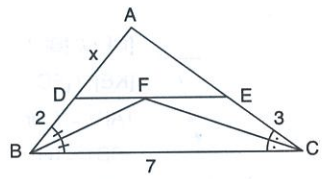
5.



m(BAD) = m(DAC)
[AD] ⊥ [BD]
[DE] // [AC]
|AB| = 5 br
|AC| = 7 br
⇒ |DE| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

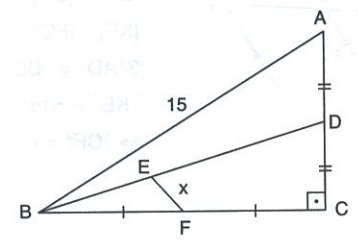
6.



[DE] // [BC]
m(ABF) = m(FBC)
m(BCF) = m(FCA)
|EC| = 3 br
|BD| = 2 br
|BC| = 7 br
⇒ |AD| = x = ?

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 5

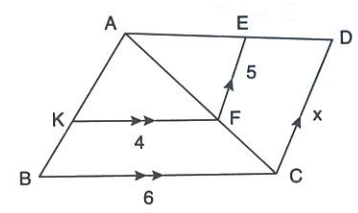
7.



[AC] ⊥ [BC]
|AD| = |DC|
|BF| = |FC|
2|BE| = |ED|
|AB| = 15 br
⇒ |EF| = x = ?

A) $\frac{5}{2}$ B) 5 C) $\frac{15}{2}$ D) 10 E) $\frac{25}{2}$

8.

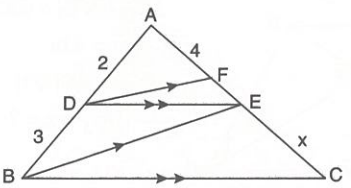


[EF] // [DC]
[KF] // [BC]
|KF| = 4 br
|BC| = 6 br
|EF| = 5 br
⇒ |DC| = x = ?

A) $\frac{7}{3}$ B) 3 C) $\frac{10}{3}$ D) 4 E) $\frac{15}{2}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

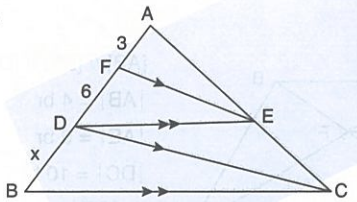
9.



[DE] // [BC]
[DF] // [BE]
$2|AD| = |AF| = 4$ br
$|BD| = 3$ br
$\Rightarrow |EC| = x = ?$

A) 20 B) 15 C) 10 D) 5 E) 1

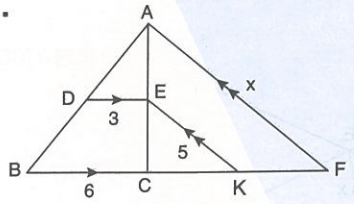
10.



[FE] // [DC]
[DE] // [BC]
$2|AF| = |DF| = 6$ br
$\Rightarrow |BD| = x = ?$

A) 24 B) 18 C) 15 D) 12 E) 6

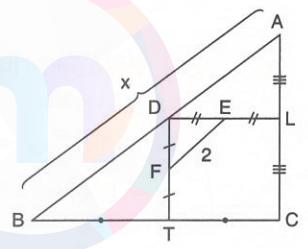
11.



[DE] // [BC]
[EK] // [AF]
$2|DE| = |BC| = 6$ br
$|EK| = 5$ br
$\Rightarrow |AF| = x = ?$

A) 3 B) 5 C) $\frac{15}{2}$ D) 10 E) $\frac{25}{2}$

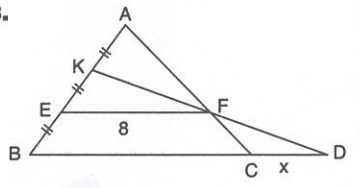
12.



$|AL| = |LC|$
$|BT| = |TC|$
$|DF| = |FT|$
$|DE| = |EL|$
$|EF| = 2$ br
$\Rightarrow |AB| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 16

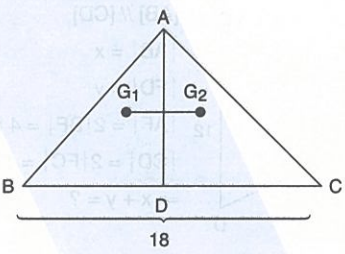
13.



[EF] // [BD]
$|AK| = |KE| = |EB|$
$|EF| = 8$ br
$\Rightarrow |CD| = x = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

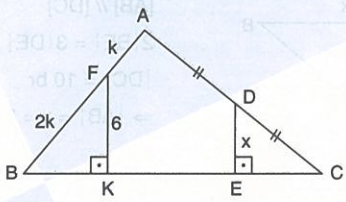
14.



G_1, ABD üçgeninin ağırlık merkezi
G_1, center of gravity of ABD triangle's
G_2, ADC üçgeninin ağırlık merkezi
G_2, center of gravity of ADC triangle's
$|BC| = 18$ br
$\Rightarrow |G_1G_2| = ?$

A) 3 B) 6 C) 9 D) 12 E) 15

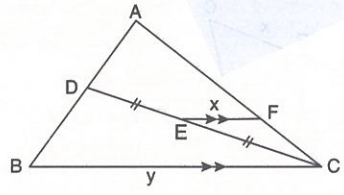
15.



[FK] ⊥ [BC]
[DE] ⊥ [BC]
$|AD| = |DC|$
$2|AF| = |BF|$
$|FK| = 6$ br
$\Rightarrow |DE| = x = ?$

A) 3 B) 4 C) $\frac{9}{2}$ D) 6 E) 9

16.

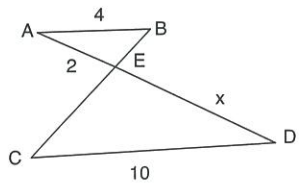


[EF] // [BC]
$2|AD| = 5|BD|$
$|EF| = x$
$|BC| = y$
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{5}{14}$ B) $\frac{5}{7}$ C) $\frac{10}{7}$ D) 3 E) $\frac{13}{4}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

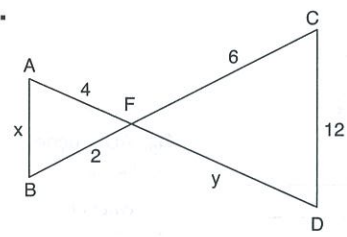
1.



[AB] // [CD]
|AB| = 4 br
|AE| = 2 br
|CD| = 10 br
⇒ |ED| = x = ?

A) 5 B) 4 C) 3 D) 2 E) 1

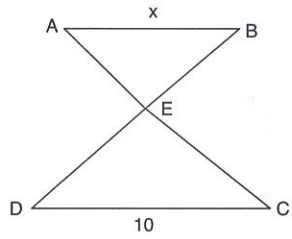
2.



[AB] // [CD]
|AB| = x
|FD| = y
|AF| = 2|BF| = 4 br
|CD| = 2|FC| = 12 br
⇒ x + y = ?

A) 8 B) 10 C) 12 D) 16 E) 20

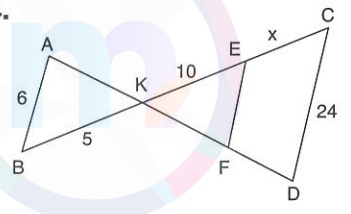
3.



[AB] // [DC]
2|BE| = 3|DE|
|DC| = 10 br
⇒ |AB| = x = ?

A) 20 B) 15 C) $\frac{20}{3}$ D) 5 E) 3

4.



[AB] // [EF] // [CD]
4|AB| = |CD| = 24 br
|BK| = 5 br
|KE| = 10 br
⇒ |EC| = x = ?

A) 2 B) 4 C) 5 D) 6 E) 10

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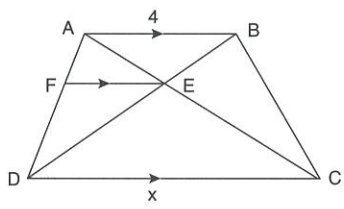
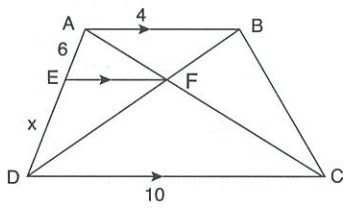
5.



[AB] // [FE] // [DC]
|AB| = 4 br
3|AF| = 2|FD|
⇒ |DC| = x = ?

A) 9 B) 8 C) 6 D) $\frac{8}{3}$ E) $\frac{4}{3}$

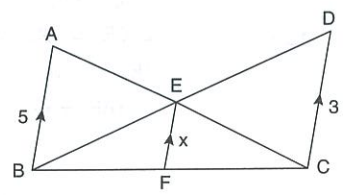
6.



[AB] // [EF] // [DC]
|AB| = 4 br
|AE| = 6 br
|DC| = 10 br
⇒ |ED| = x = ?

A) $\frac{35}{2}$ B) 15 C) 12 D) $\frac{25}{2}$ E) 10

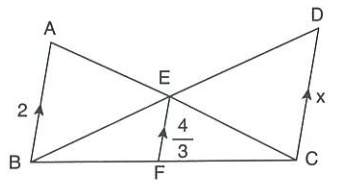
7.



[AB] // [EF] // [CD]
|CD| = 3 br
|AB| = 5 br
⇒ |EF| = x = ?

A) 8 B) 5 C) 2 D) $\frac{15}{8}$ E) $\frac{8}{15}$

8.



[AB] // [EF] // [DC]
|AB| = 2 br
|EF| = $\frac{4}{3}$ br
⇒ |DC| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

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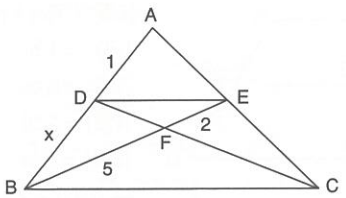
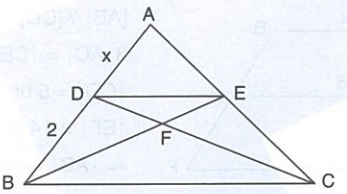
9.



[DE] // [BC]
|AD| = 1 br
|EF| = 2 br
|BF| = 5 br
⇒ |BD| = x = ?

A) 5 B) 4 C) 3 D) $\frac{5}{2}$ E) $\frac{3}{2}$

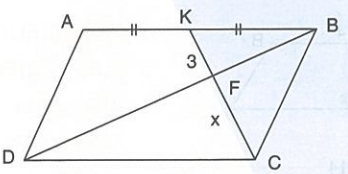
10.



[DE] // [BC]
|BD| = 2 br
4|DF| = 3|FC|
⇒ |AD| = x = ?

A) 10 B) 8 C) 6 D) 4 E) 2

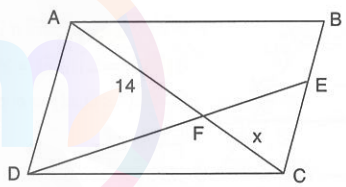
11.



ABCD paralelkenar
ABCD parallelogram
|AK| = |KB|
|KF| = 3 br
⇒ |FC| = x = ?

A) $\frac{1}{3}$ B) 1 C) $\frac{8}{3}$ D) 3 E) 6

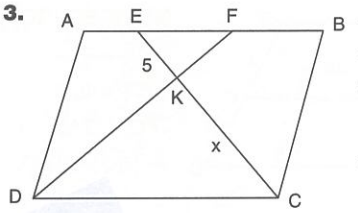
12.



ABCD paralelkenar
ABCD parallelogram
2|BE| = 5|EC|
|AF| = 14 br
⇒ |FC| = x = ?

A) 1 B) 2 C) 4 D) 6 E) 8

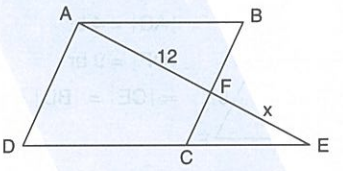
13.



ABCD paralelkenar
ABCD parallelogram
2|AE| = 2|EF| = |FB|
|EK| = 5 br
⇒ |KC| = x = ?

A) $\frac{5}{4}$ B) $\frac{5}{2}$ C) 5 D) 10 E) 20

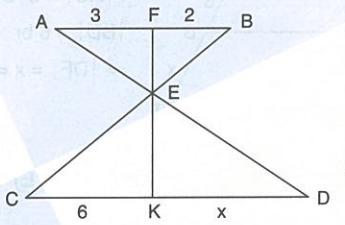
14.



ABCD paralelkenar
ABCD parallelogram
|DC| = 2|CE|
|AF| = 12 br
⇒ |FE| = x = ?

A) 3 B) 6 C) 9 D) 12 E) 24

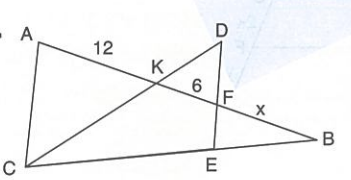
15.



[AB] // [CD]
|AF| = 3 br
|BF| = 2 br
|CK| = 6 br
⇒ |KD| = x = ?

A) 12 B) 9 C) 6 D) 4 E) 2

16.



[DE] // [AC]
|DF| = |FE|
|AK| = 2|KF| = 12 br
⇒ |FB| = x = ?

A) 18 B) 12 C) 9 D) 6 E) 3

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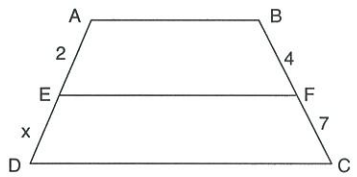
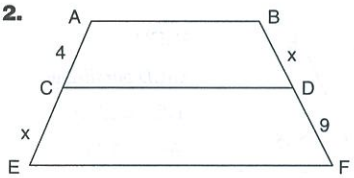
1.



[AB] // [EF] // [DC]
|AE| = 2 br
|BF| = 4 br
|FC| = 7 br
⇒ |ED| = x = ?

A) 21 B) 14 C) 7 D) $\frac{7}{2}$ E) $\frac{7}{4}$

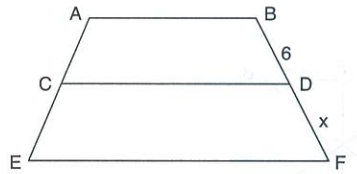
2.



[AB] // [CD] // [EF]
|AC| = 4 br
|DF| = 9 br
⇒ |CE| = |BD| = x = ?

A) 1 B) 3 C) 6 D) 9 E) 12

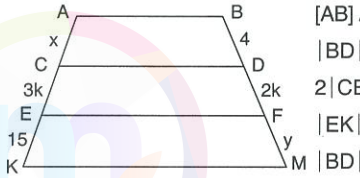
3.



[AB] // [CD] // [EF]
7|AC| = 3|CE|
|BD| = 6 br
⇒ |DF| = x = ?

A) $\frac{1}{7}$ B) $\frac{2}{7}$ C) $\frac{7}{2}$ D) 7 E) 14

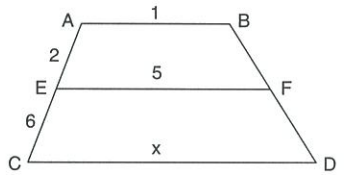
4.



[AB] // [CD] // [EF] // [KM]
|BD| = 4 br
2|CE| = 3|DF|
|EK| = 15 br
|BD| = 4 br
|AC| = x
|FM| = y
⇒ y – x = ?

A) 10 B) 8 C) 6 D) 4 E) 2

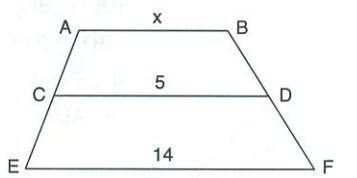
5.



[AB] // [EF] // [CD]
|AB| = 1 br
|EF| = 5 br
|AE| = 2 br
|EC| = 6 br
⇒ |CD| = x = ?

A) 21 B) 17 C) 13 D) 11 E) 7

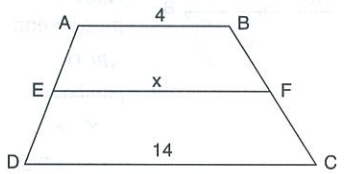
6.



[AB] // [CD] // [EF]
3|AC| = |CE|
|CD| = 5 br
|EF| = 14 br
⇒ |AB| = x = ?

A) 4 B) 3 C) $\frac{7}{2}$ D) 2 E) 1

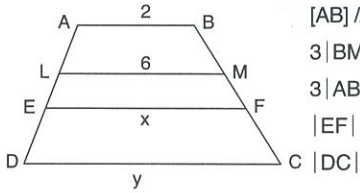
7.



[AB] // [EF] // [DC]
2|BF| = 3|FC|
|AB| = 4 br
|DC| = 14 br
⇒ |EF| = x = ?

A) 5 B) 7 C) 10 D) 12 E) 13

8.



[AB] // [LM] // [EF] // [DC]
3|BM| = 6|MF| = 2|FC|
3|AB| = |LM| = 6 br
|EF| = x
|DC| = y
⇒ y – x = ?

A) 6 B) 5 C) 4 D) 2 E) 1

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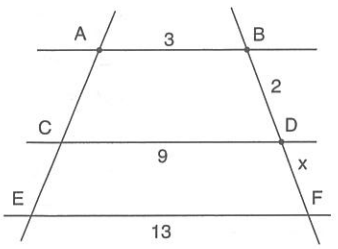
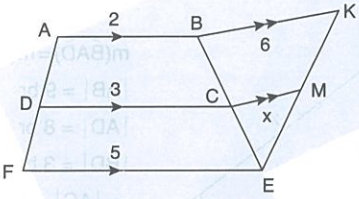
9.



[AB] // [CD] // [EF]
|AB| = 3 br
|CD| = 9 br
|EF| = 13 br
|BD| = 2 br
⇒ |DF| = x = ?

A) 1 B) $\frac{4}{3}$ C) $\frac{5}{3}$ D) 3 E) 4

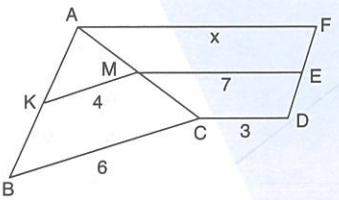
10.



[BK] // [CM]
[AB] // [DC] // [FE]
|AB| = 2 br
|DC| = 3 br
|FE| = 5 br
|BK| = 6 br
⇒ |CM| = x = ?

A) 12 B) 9 C) 6 D) 4 E) 3

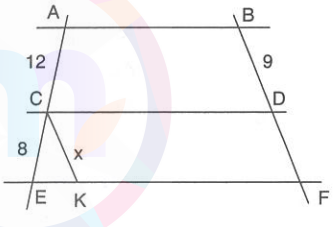
11.



[KM] // [BC]
[AF] // [ME] // [CD]
|KM| = 4 br
|BC| = 6 br
|ME| = 7 br
|CD| = 3 br
⇒ |AF| = x = ?

A) 7 B) 11 C) 13 D) 15 E) 17

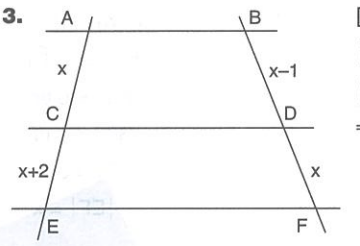
12.



[AB] // [CD] // [EF]
[CK] // [BF]
|AC| = 12 br
|BD| = 9 br
|CE| = 8 br
⇒ |KC| = x = ?

A) 2 B) 4 C) 5 D) 6 E) 8

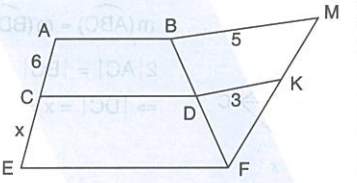
13.



[AB] // [CD] // [EF]
|BD| = x – 1
|CE| = x + 2
⇒ |DF| = |AC| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

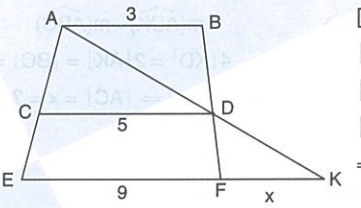
14.



[BM] // [DK]
[AB] // [CD] // [EF]
|BM| = 5 br
|DK| = 3 br
|AC| = 6 br
⇒ |CE| = x = ?

A) 10 B) 9 C) 6 D) $\frac{18}{5}$ E) $\frac{9}{5}$

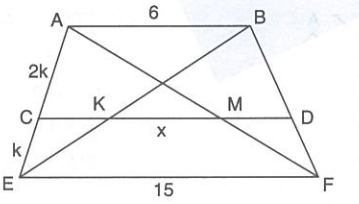
15.



[AB] // [CD] // [EK]
|AB| = 3 br
|CD| = 5 br
|EF| = 9 br
⇒ |FK| = x = ?

A) 6 B) 5 C) 4 D) 3 E) 2

16.

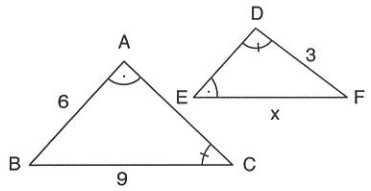


[AB] // [CD] // [EF]
|AC| = 2|CE|
|AB| = 6 br
|EF| = 15 br
⇒ |KM| = x = ?

A) 10 B) 9 C) 8 D) 6 E) 4

PUZA YAYINLARI

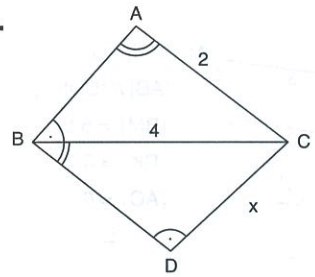
1.



$m(\widehat{A}) = m(\widehat{E})$
$m(\widehat{C}) = m(\widehat{D})$
$|AB| = 6$ br
$|BC| = 9$ br
$|DF| = 3$ br
$\Rightarrow |EF| = x = ?$

A) 1 B) 2 C) 3 D) $\frac{9}{2}$ E) 6

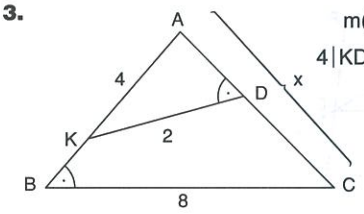
2.



$m(\widehat{BAC}) = m(\widehat{CBD})$
$m(\widehat{ABC}) = m(\widehat{BDC})$
$2|AC| = |BC| = 4$ br
$\Rightarrow |DC| = x = ?$

A) 1 B) 2 C) 4 D) 8 E) 6

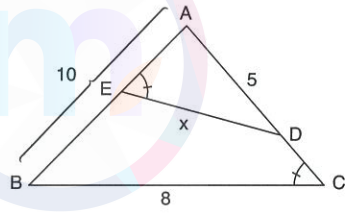
3.



$m(\widehat{ADK}) = m(\widehat{ABC})$
$4|KD| = 2|AK| = |BC| = 8$ br
$\Rightarrow |AC| = x = ?$

A) 16 B) 12 C) 8 D) 4 E) 2

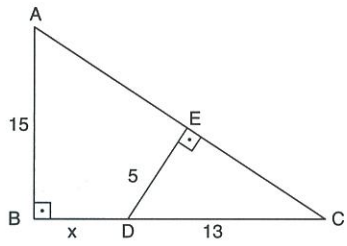
4.



$m(\widehat{AED}) = m(\widehat{ACB})$
$|AB| = 10$ br
$|AD| = 5$ br
$|BC| = 8$ br
$\Rightarrow |ED| = x = ?$

A) 8 B) 6 C) 5 D) 4 E) 2

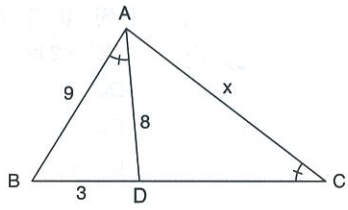
5.



$[AB] \perp [BC]$
$[DE] \perp [AC]$
$|AB| = 15$ br
$|DC| = 13$ br
$|DE| = 5$ br
$\Rightarrow |BD| = x = ?$

A) 39 B) 26 C) 23 D) 11 E) 9

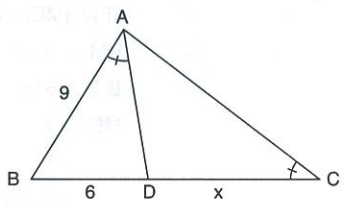
6.



$m(\widehat{BAD}) = m(\widehat{ACB})$
$|AB| = 9$ br
$|AD| = 8$ br
$|BD| = 3$ br
$\Rightarrow |AC| = x = ?$

A) 36 B) 24 C) 21 D) 18 E) 15

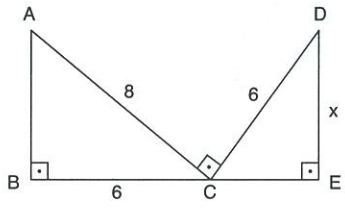
7.



$m(\widehat{BAD}) = m(\widehat{ACB})$
$|AB| = 9$ br
$|BD| = 6$ br
$\Rightarrow |DC| = x = ?$

A) $\frac{5}{2}$ B) 3 C) 5 D) 6 E) $\frac{15}{2}$

8.



$[AB] \perp [BE]$
$[AC] \perp [CD]$
$[BE] \perp [DE]$
$|BC| = |CD| = 6$ br
$|AC| = 8$ br
$\Rightarrow |DE| = x = ?$

A) 8 B) 6 C) $\frac{11}{2}$ D) $\frac{9}{2}$ E) 3

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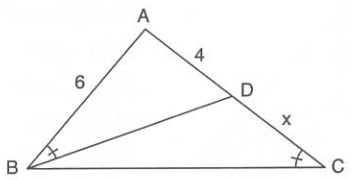
9.



$m(\widehat{ABD}) = m(\widehat{ACB})$

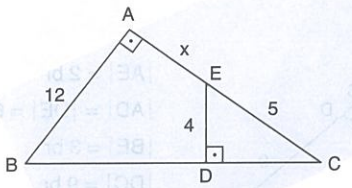
$|AD| = 4$ br

$|AB| = 6$ br

$\Rightarrow |DC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

10.



$[BA] \perp [AC]$

$[ED] \perp [BC]$

$|ED| = 4$ br

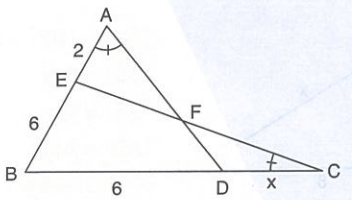
$|EC| = 5$ br

$|AB| = 12$ br

$\Rightarrow |AE| = x = ?$

A) 11 B) 10 C) 9 D) 5 E) 4

11.



$m(\widehat{BAD}) = m(\widehat{ECB})$

$|AE| = 2$ br

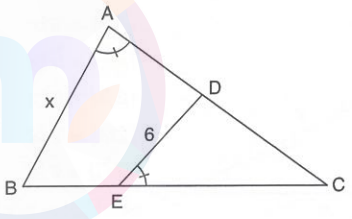
$|EB| = 6$ br

$|BD| = 6$ br

$\Rightarrow |DC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

12.



$m(\widehat{BAC}) = m(\widehat{DEC})$

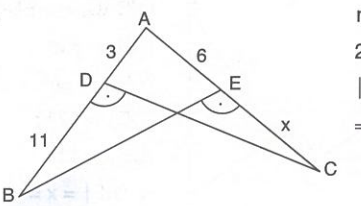
$3|DC| = 2|BC|$

$|ED| = 6$ br

$\Rightarrow |AB| = x = ?$

A) 2 B) $\frac{7}{3}$ C) 4 D) 6 E) 9

13.



$m(\widehat{BDC}) = m(\widehat{BEC})$

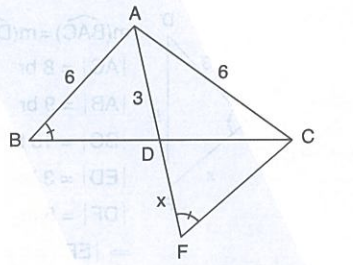
$2|AD| = |AE| = 6$ br

$|BD| = 11$ br

$\Rightarrow |EC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

14.



$m(\widehat{ABC}) = m(\widehat{AFC})$

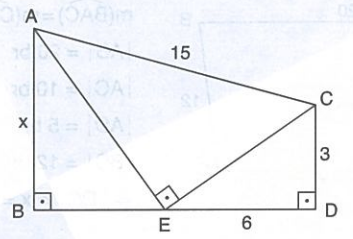
$|AB| = |AC| = 6$ br

$|AD| = 3$ br

$\Rightarrow |DF| = x = ?$

A) 12 B) 9 C) 7 D) $\frac{13}{2}$ E) $\frac{9}{2}$

15.



$[AB] \perp [BD]$

$[AE] \perp [EC]$

$[CD] \perp [BD]$

$|ED| = 6$ br

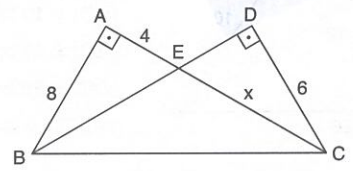
$|CD| = 3$ br

$|AC| = 15$ br

$\Rightarrow |AB| = x = ?$

A) $12\sqrt{5}$ B) $6\sqrt{5}$ C) 12 D) 6 E) $\sqrt{5}$

16.



$[BA] \perp [AC]$

$[BD] \perp [DC]$

$|AB| = 8$ br

$|AE| = 4$ br

$|DC| = 6$ br

$\Rightarrow |EC| = x = ?$

A) 12 B) $6\sqrt{5}$ C) $4\sqrt{5}$ D) $3\sqrt{5}$ E) 3

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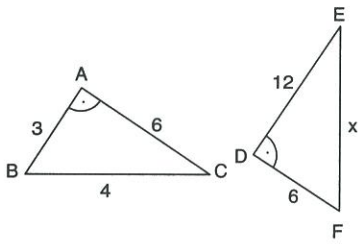
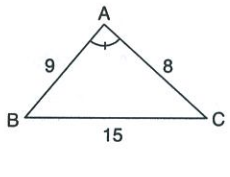
1.



$m(\widehat{BAC}) = m(\widehat{EDF})$
$|AB| = 3$ br
$|AC| = |DF| = 6$ br
$|DE| = 12$ br
$|BC| = 4$ br
$\Rightarrow |EF| = x = ?$

A) 16 B) 12 C) 8 D) 6 E) 4

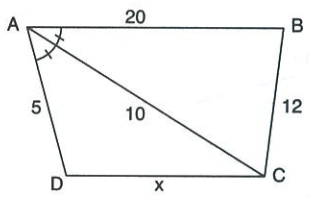
2.



$m(\widehat{BAC}) = m(\widehat{DEF})$
$|AC| = 8$ br
$|AB| = 9$ br
$|BC| = 15$ br
$|ED| = 3$ br
$|DF| = 5$ br
$\Rightarrow |EF| = x = ?$

A) 2 B) $\frac{8}{3}$ C) 4 D) 16 E) 24

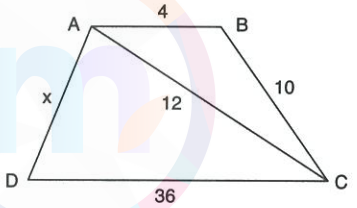
3.



$m(\widehat{BAC}) = m(\widehat{CAD})$
$|AB| = 20$ br
$|AC| = 10$ br
$|AD| = 5$ br
$|BC| = 12$ br
$\Rightarrow |DC| = x = ?$

A) 4 B) 6 C) 12 D) 24 E) 36

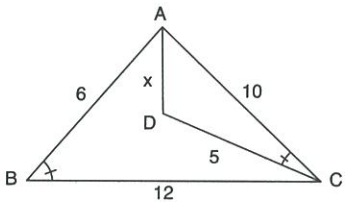
4.



$[AB] // [DC]$
$|AB| = 4$ br
$|BC| = 10$ br
$|AC| = 12$ br
$|DC| = 36$ br
$\Rightarrow |AD| = x = ?$

A) $\frac{10}{3}$ B) 5 C) 10 D) 30 E) 90

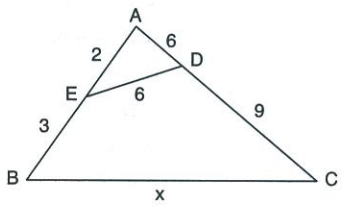
5.



$m(\widehat{ABC}) = m(\widehat{ACD})$
$|AB| = 6$ br
$|AC| = 10$ br
$|DC| = 5$ br
$|BC| = 12$ br
$\Rightarrow |AD| = x = ?$

A) 24 B) 15 C) 12 D) $\frac{25}{3}$ E) $\frac{25}{6}$

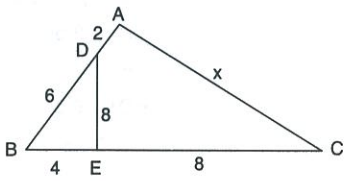
6.



$|AE| = 2$ br
$|AD| = |DE| = 6$ br
$|BE| = 3$ br
$|DC| = 9$ br
$\Rightarrow |BC| = x = ?$

A) 6 B) 9 C) 10 D) 12 E) 15

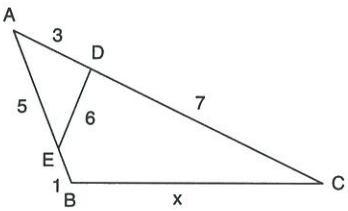
7.



$|EC| = |DE| = 8$ br
$|BD| = 6$ br
$|BE| = 4$ br
$|AD| = 2$ br
$\Rightarrow |AC| = x = ?$

A) 24 B) 16 C) 12 D) 8 E) 4

8.



$|AD| = 3$ br
$|AE| = 5$ br
$|DE| = 6$ br
$|EB| = 1$ br
$|DC| = 7$ br
$\Rightarrow |BC| = x = ?$

A) 18 B) 16 C) 12 D) 8 E) 6

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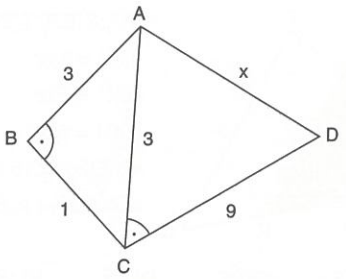
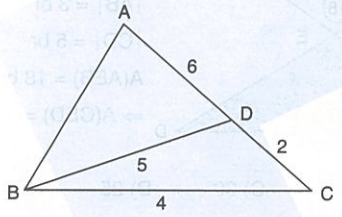
9.



$m(\widehat{ABC}) = m(\widehat{ACD})$
$|AB| = 3$ br
$|BC| = 1$ br
$|AC| = 3$ br
$|DC| = 9$ br
$\Rightarrow |AD| = x = ?$

A) 27 B) 24 C) 18 D) 9 E) 3

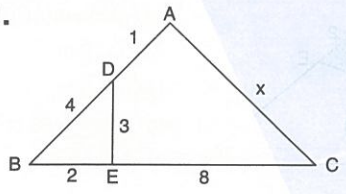
10.



$|AD| = 6$ br
$|DC| = 2$ br
$|BD| = 5$ br
$|BC| = 4$ br
$\Rightarrow Ç(ABC) = ?$

A) 5 B) 10 C) 17 D) 22 E) 25

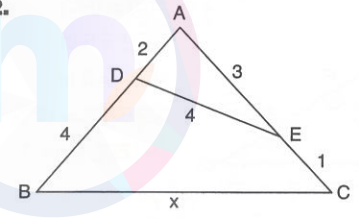
11.



$|BD| = 2|BE| = 4$br
$|AD| = 1$ br
$|EC| = 8$ br
$|DE| = 3$ br
$\Rightarrow |AC| = x = ?$

A) $\frac{7}{2}$ B) 4 C) 6 D) $\frac{15}{2}$ E) 10

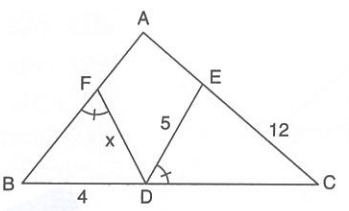
12.



$|AD| = 2$ br
$|AE| = 3$ br
$|DE| = |BD| = 4$ br
$|EC| = 1$ br
$\Rightarrow |BC| = x = ?$

A) 16 B) 12 C) 8 D) 4 E) 2

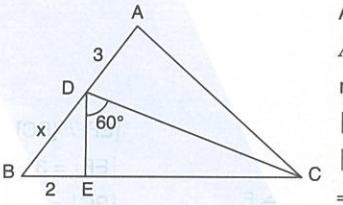
13.



$|AB| = |AC|$
$m(\widehat{BFD}) = m(\widehat{EDC})$
$|EC| = 12$ br
$|DE| = 5$ br
$|BD| = 4$ br
$\Rightarrow |FD| = x = ?$

A) $\frac{1}{2}$ B) $\frac{2}{5}$ C) 1 D) $\frac{5}{3}$ E) 5

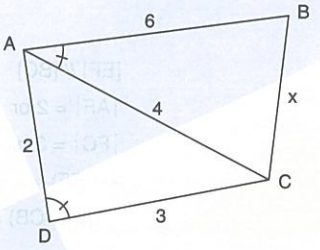
14.



ABC eşkenar üçgen
ABC equilateral triangle
$m(\widehat{EDC}) = 60°$
$|AD| = 3$ br
$|BE| = 2$ br
$\Rightarrow |BD| = x = ?$

A) 2 B) $\frac{5}{2}$ C) $\frac{7}{2}$ D) 4 E) 6

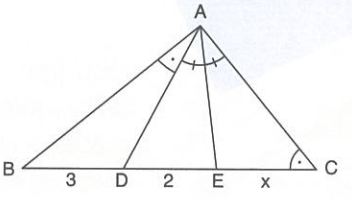
15.



$m(\widehat{BAC}) = m(\widehat{ADC})$
$|AB| = 6$ br
$|AC| = 4$ br
$|AD| = 2$ br
$|DC| = 3$ br
$\Rightarrow |BC| = x = ?$

A) 8 B) 6 C) 5 D) 4 E) 2

16.



$m(\widehat{BAD}) = m(\widehat{ACB})$
$m(\widehat{DAE}) = m(\widehat{EAC})$
$|BD| = 3$ br
$|DE| = 2$ br
$\Rightarrow |EC| = x = ?$

A) 1 B) 2 C) $\frac{10}{3}$ D) 4 E) $\frac{13}{3}$

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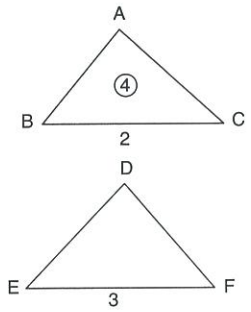
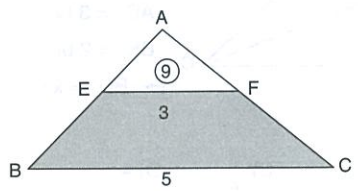
1.



$\widehat{ABC} \approx \widehat{DEF}$
$|BC| = 2$ br
$|EF| = 3$ br
$A(ABC) = 4$ br^2
$\Rightarrow A(DEF) = ?$

A) 3 B) 4 C) 6 D) 9 E) 18

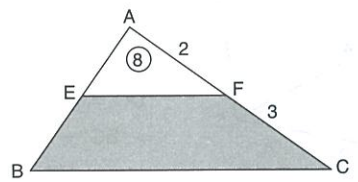
2.



[EF] // [BC]
$|EF| = 3$ br
$|BC| = 5$ br
$A(AEF) = 9$ br^2
$\Rightarrow A(EFCB) = ?$

A) 50 B) 25 C) 16 D) 15 E) 6

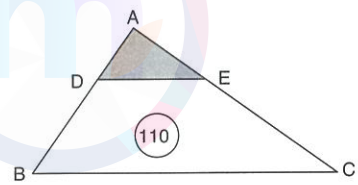
3.



[EF] // [BC]
$|AF| = 2$ br
$|FC| = 3$ br
$A(AEF) = 8$ br^2
$\Rightarrow A(EFCB) = ?$

A) 50 B) 42 B) 25 C) 27 D) 17

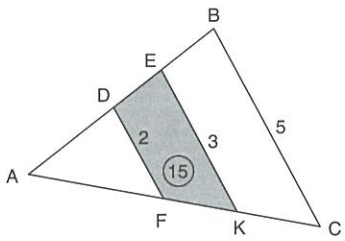
4.



[DE] // [BC]
$5|AE| = 3|EC|$
$A(DECB) = 110$ br^2
$\Rightarrow A(ADE) = ?$

A) 27 B) 18 C) 12 D) 9 E) 3

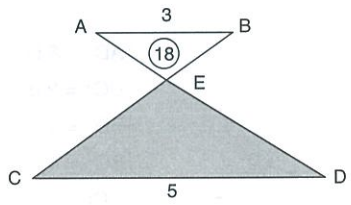
5.



[DF] // [EK] // [BC]
$|DF| = 2$ br
$|EK| = 3$ br
$|BC| = 5$ br
$A(DFKE) = 15$ br^2
$\Rightarrow A(ADF) + A(EBCK) = ?$

A) 60 B) 45 C) 35 D) 30 E) 20

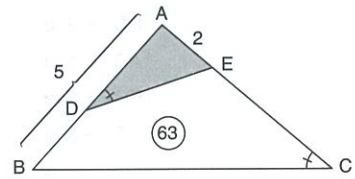
6.



[AB] // [CD]
$|AB| = 3$ br
$|CD| = 5$ br
$A(AEB) = 18$ br^2
$\Rightarrow A(CED) = ?$

A) 100 B) 50 C) 30 D) 25 E) 18

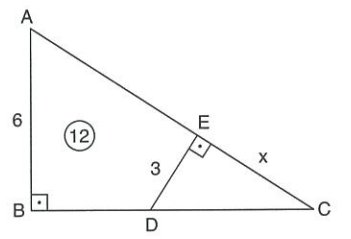
7.



$m(\widehat{ADE}) = m(\widehat{ACB})$
$|AE| = 2$ br
$|AB| = 5$ br
$A(DECB) = 63$ br^2
$\Rightarrow A(DAE) = ?$

A) 4 B) 8 C) 12 D) 14 E) 16

8.



[AB] ⊥ [BC]
[DE] ⊥ [AC]
$|AB| = 6$ br
$|ED| = 3$ br
$A(ABDE) = 12$ br^2
$\Rightarrow |EC| = x = ?$

A) $\frac{6}{2}$ B) 2 C) $\frac{8}{3}$ D) 3 E) 6

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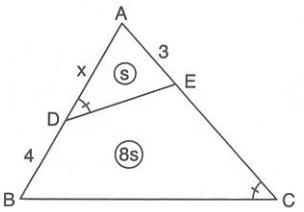
PUZA YAYINLARI
PUZA YAYINLARI

9.



$m(\widehat{ADE}) = m(\widehat{ACB})$

$8A(ADE) = A(DECB)$

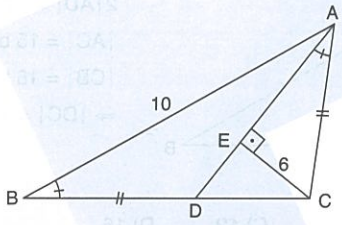
$|AE| = 3$ br

$|DB| = 4$ br

$\Rightarrow |AD| = x = ?$

A) 9 B) 6 C) 5 D) 4 E) 3

10.



$m(\widehat{DAC}) = m(\widehat{ABC})$

$|AC| = |BD|$

$[CE] \perp [AD]$

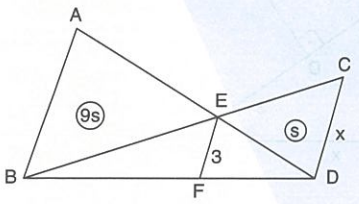
$|AB| = 10$ br

$|EC| = 6$ br

$\Rightarrow A(ABD) = ?$

A) 10 B) 12 C) 15 D) 30 E) 60

11.



$[AB] // [EF] // [CD]$

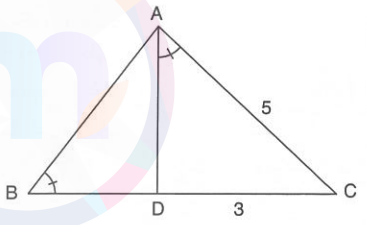
$A(ABE) = 9A(ECD)$

$|EF| = 3$ br

$\Rightarrow |CD| = x$

A) 1 B) 3 C) 4 D) $\frac{14}{3}$ E) 12

12.



$m(\widehat{DAC}) = m(\widehat{ABC})$

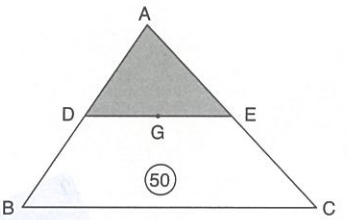
$|AC| = 5$ br

$|DC| = 3$ br

$\Rightarrow \frac{A(ABD)}{A(ADC)} = ?$

A) $\frac{2}{3}$ B) $\frac{5}{3}$ C) $\frac{16}{9}$ D) $\frac{25}{9}$ E) $\frac{25}{3}$

13.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity of ABC triangle's

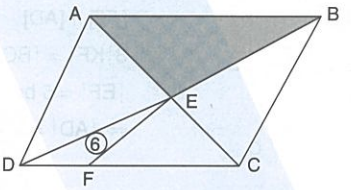
$[DE] // [BC]$

$A(DECB) = 50$ br^2

$\Rightarrow A(ADE) = ?$

A) 5 B) 10 C) 20 D) $\frac{200}{9}$ E) 40

14.



ABCD paralelkenar

ABCD parallelogram

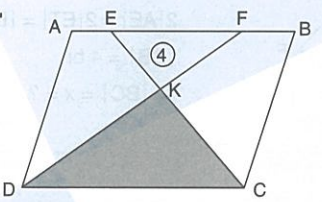
$3|DF| = 2|FC|$

$A(DEF) = 6$ br^2

$\Rightarrow A(ABE) = ?$

A) 10 B) 15 C) 25 E) $\frac{75}{2}$ E) 50

15.



ABCD paralelkenar

ABCD parallelogram

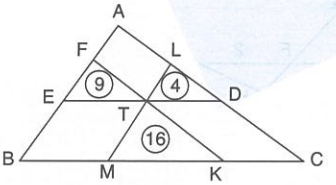
$3|AE| = 6|EF| = 2|FB|$

$A(EFK) = 4$ br^2

$\Rightarrow A(DKC) = ?$

A) 144 B) 72 C) 36 D) 24 E) 18

16.



$[ED] // [BC]$

$[ML] // [AB]$

$[FK] // [AC]$

$A(EFT) = 9$ br^2

$A(TLD) = 4$ br^2

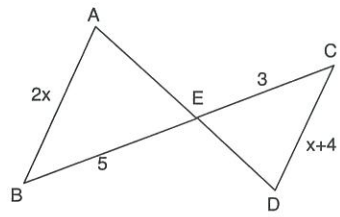
$A(TMK) = 16$ br^2

$\Rightarrow A(ABC) = ?$

A) 27 B) 29 C) 48 D) 64 E) 81

PUZA YAYINLARI

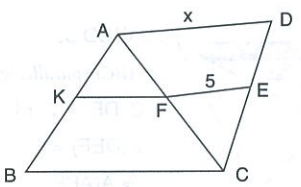
1.



[AB] // [CD]
|BE| = 5 br
|EC| = 3 br
|AB| = 2x
|CD| = x + 4
⇒ x = ?

A) 20 B) 12 C) 10 D) 4 E) $\frac{20}{11}$

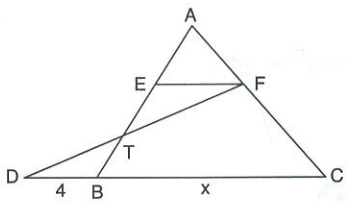
2.



[KF] // [BC]
[FE] // [AD]
3|KF| = |BC|
|EF| = 5 br
⇒ |AD| = x = ?

A) 1 B) $\frac{6}{5}$ C) $\frac{10}{3}$ D) $\frac{15}{2}$ E) 15

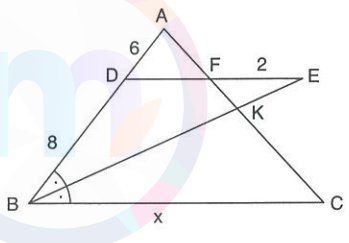
3.



[EF] // [DC]
2|AE| = 2|ET| = |BT|
|DB| = 4 br
⇒ |BC| = x = ?

A) 2 B) 3 C) 4 D) 6 E) 8

4.

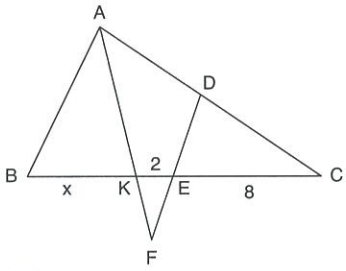


[DE] // [BC]
|EF| = 2 br
|AD| = 6 br
|BD| = 8 br
m(ABE) = m(EBC)
⇒ |BC| = x = ?

A) $\frac{56}{3}$ B) 14 C) 8 D) 6 E) 4

PUZA YAYINLARI

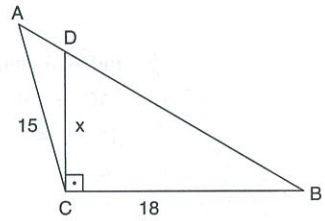
5.



[DF] // [AB]
|DE| = 2|EF|
|EC| = 8 br
|KE| = 2 br
⇒ |BK| = x = ?

A) 10 B) 8 C) 6 D) 4 E) 2

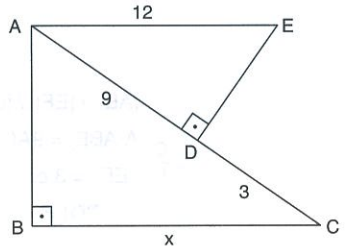
6.



[DC] ⊥ [CB]
2|AD| = |DB|
|AC| = 15 br
|CB| = 18 br
⇒ |DC| = x = ?

A) 6 B) 8 C) 12 D) 16 E) 20

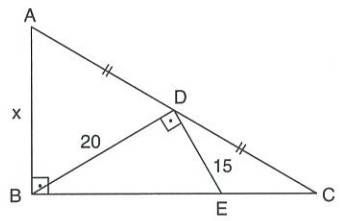
7.



[AE] // [BC]
[ED] ⊥ [AC]
[AB] ⊥ [BC]
|AE| = 12 br
|AD| = 9 br
|DC| = 3 br
⇒ |BC| = x = ?

A) 10 B) 9 C) $\frac{45}{4}$ D) $\frac{15}{2}$ E) 5

8.

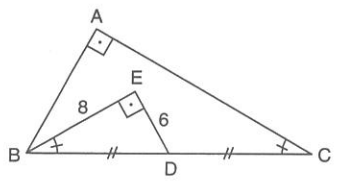


[AB] ⊥ [BC]
[BD] ⊥ [DE]
|AD| = |DC|
|BD| = 20 br
|DE| = 15 br
⇒ |AB| = x = ?

A) 36 B) 24 C) 12 D) 8 E) 6

PUZA YAYINLARI

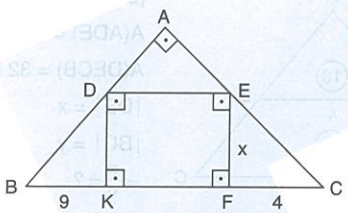
9.



$|BD| = |DC|$
$[BA] \perp [AC]$
$[BE] \perp [ED]$
$|EB| = 8$ br
$|ED| = 6$ br
$m(\widehat{EBC}) = m(\widehat{ACB})$
$\Rightarrow A(ABC) = ?$

A) 48 B) 64 C) 96 D) 100 E) 114

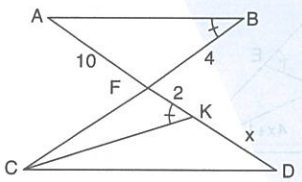
10.



$[BA] \perp [AC]$
DEFK dikdörtgen
DEFK rectangle
$|BK| = 9$ br
$|FC| = 4$ br
$\Rightarrow |EF| = x = ?$

A) $\frac{2}{3}$ B) 4 C) $\frac{9}{2}$ D) 6 E) 36

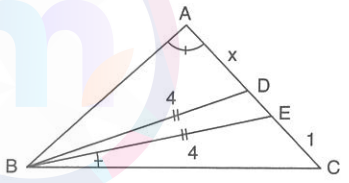
11.



$[AB] // [CD]$
$m(\widehat{ABC}) = m(\widehat{AKC})$
$|AF| = 10$ br
$|BF| = 4$ br
$|FK| = 2$ br
$\Rightarrow |KD| = x = ?$

A) 21 B) $\frac{21}{2}$ C) 12 D) 6 E) $\frac{11}{2}$

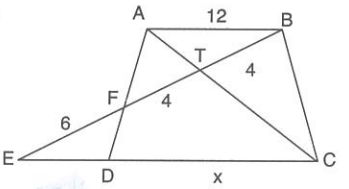
12.



$m(\widehat{BAC}) = m(\widehat{EBC})$
$|BD| = |BE| = 4$ br
$|EC| = 1$ br
$\Rightarrow |AD| = x = ?$

A) 16 B) 8 C) 4 D) 2 E) 1

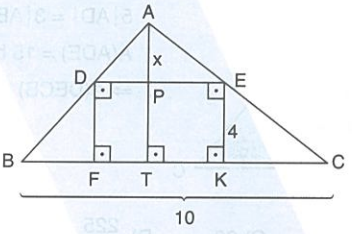
13.



$[AB] // [EC]$
$|AB| = 12$ br
$|EF| = 6$ br
$|FT| = |TB| = 4$ br
$\Rightarrow |DC| = x = ?$

A) 9 B) 12 C) 16 D) 21 E) 30

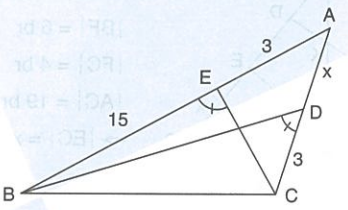
14.



DEKF kare
DEKF square
$|EK| = 4$ br
$|BC| = 10$ br
$\Rightarrow |AP| = x = ?$

A) 1 B) $\frac{4}{3}$ C) $\frac{8}{3}$ D) 4 E) 32

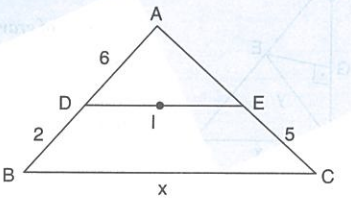
15.



$m(\widehat{BEC}) = m(\widehat{BDC})$
$|DC| = 3$ br
$|BE| = 15$ br
$|AE| = 3$ br
$\Rightarrow |AD| = x = ?$

A) 3 B) 4 C) 6 D) 9 E) 12

16.

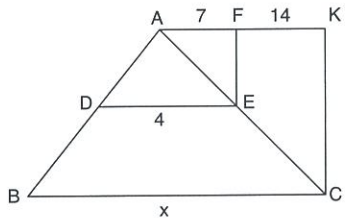


$[DE] // [BC]$
I iç teğet çemberin merkezi
I center point of the incircle
$|AD| = 6$ br
$|BD| = 2$ br
$|EC| = 5$ br
$\Rightarrow |BC| = x = ?$

A) $\frac{28}{3}$ B) 8 C) 6 D) $\frac{21}{4}$ E) 5

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

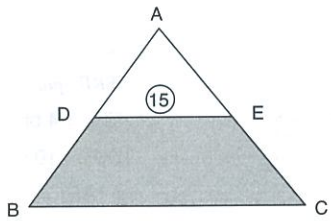
1.



[DE] // [BC]
[FE] // [KC]
$|AF| = 7$ br
$|FK| = 14$ br
$|DE| = 4$ br
$\Rightarrow |BC| = x = ?$

A) 2 B) 6 C) 8 D) 10 E) 12

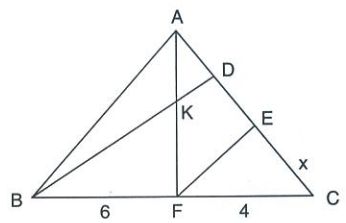
2.



[DE] // [BC]
$5|AD| = 3|AB|$
$A(ADE) = 15$ br^2
$\Rightarrow A(DECB) = ?$

A) $\frac{5}{3}$ B) $\frac{80}{3}$ C) 30 D) $\frac{225}{3}$ E) 80

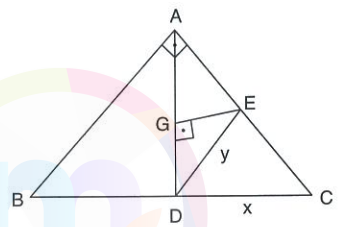
3.



[BD] // [FE]
$2|AK| = 3|KF|$
$|BF| = 6$ br
$|FC| = 4$ br
$|AC| = 19$ br
$\Rightarrow |EC| = x = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

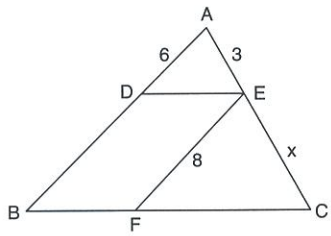
4.



G, ABC üçgeninin ağırlık merkezi
G, center of gravity of ABC triangle's
[AB] // [ED]
[BA] ⊥ [AC]
[EG] ⊥ [AD]
$|ED| = y$
$|DC| = x$
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{1}{\sqrt{3}}$ B) 1 C) $\sqrt{3}$ D) 3 E) $3\sqrt{3}$

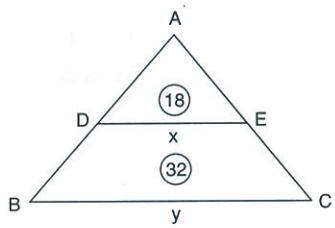
5.



DEFB paralelkenar
DEFB parallelogram
$|AD| = 2|AE| = 6$ br
$|EF| = 8$ br
$\Rightarrow |EC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

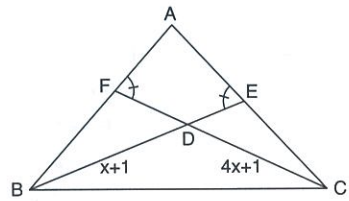
6.



[DE] // [BC]
$A(ADE) = 18$ br^2
$A(DECB) = 32$ br^2
$|DE| = x$
$|BC| = y$
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{3}{4}$ B) $\frac{3}{5}$ C) $\frac{3}{7}$ D) $\frac{9}{25}$ E) $\frac{9}{49}$

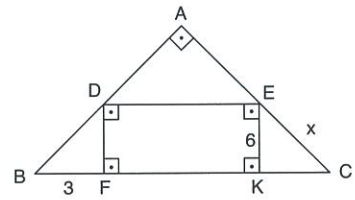
7.



$m(\widehat{AFC}) = m(\widehat{AEB})$
$|FD| = x$
$|DE| = 2x + 2$
$|DC| = 4x + 1$
$|BD| = x + 1$
$\Rightarrow \frac{A(BFD)}{A(DEC)} = ?$

A) $\frac{1}{9}$ B) $\frac{1}{3}$ C) 1 D) 3 E) 9

8.

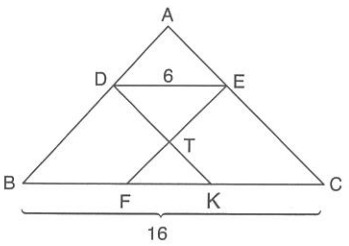


DEKF dikdörtgen
DEKF rectangle
[BA] ⊥ [AC]
$|BF| = 3$ br
$|EK| = 6$ br
$\Rightarrow |EC| = x = ?$

A) $\sqrt{5}$ B) 5 C) $3\sqrt{5}$ D) $6\sqrt{5}$ E) $12\sqrt{5}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

9.



DEFB ve DECK paralelkenar

DEFB and DECK parallelogram

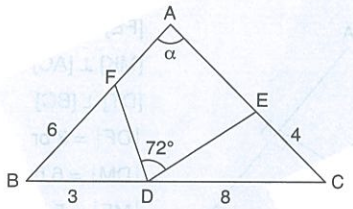
$|DE| = 6$ br

$|BC| = 16$ br

$\Rightarrow \frac{A(DET)}{A(FTK)} = ?$

A) 1 B) $\frac{3}{2}$ C) $\frac{9}{4}$ D) 3 E) 9

10.



$|AB| = |AC|$

$m(\widehat{FDE}) = 72°$

$|BF| = 6$ br

$|EC| = 4$ br

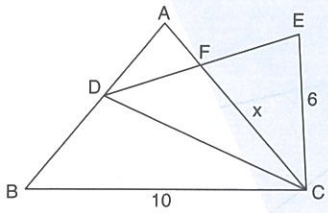
$|BD| = 3$ br

$|DC| = 8$ br

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 144 B) 72 C) 36 D) 18 E) 9

11.



ABC, DEC eşkenar üçgen

ABC, DEC equilateral triangle

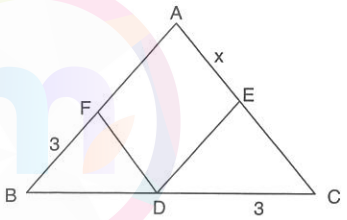
$|EC| = 6$ br

$|BC| = 10$ br

$\Rightarrow |FC| = x = ?$

A) 2 B) 3,6 C) 4 D) 4,8 E) 8

12.



ABC eşkenar üçgen

ABC equilateral triangle

$m(\widehat{AED}) = m(\widehat{FDC})$

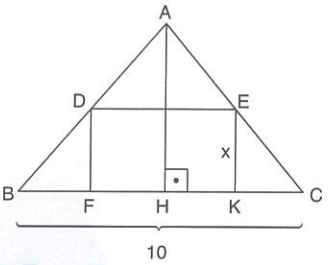
$|BF| = 3$ br

$|DC| = 3$ br

$\Rightarrow |AE| = x = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) 3 E) 4

13.



DEKF kare

DEKF square

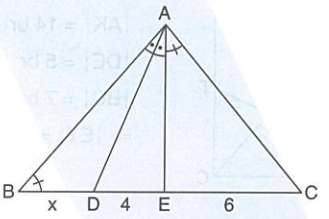
$|AH| = 12$ br

$|BC| = 10$ br

$\Rightarrow |EK| = x = ?$

A) 60 B) 30 C) 15 D) $\frac{32}{5}$ E) $\frac{60}{11}$

14.



$m(\widehat{EAC}) = m(\widehat{ABC})$

$m(\widehat{BAD}) = m(\widehat{DAE})$

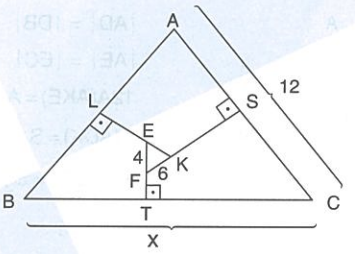
$|DE| = 4$ br

$|EC| = 6$ br

$\Rightarrow |BD| = x = ?$

A) 2 B) 4 C) $\frac{22}{5}$ D) $\frac{20}{3}$ E) $\frac{35}{2}$

15.



$[ET] \perp [BC]$

$[KL] \perp [AB]$

$[FS] \perp [AC]$

$|EF| = 4$ br

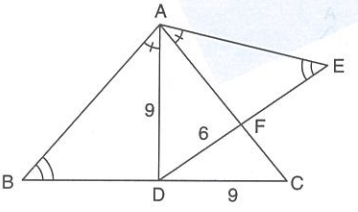
$|FK| = 6$ br

$|AC| = 12$ br

$\Rightarrow |BC| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 12

16.



$m(\widehat{CAE}) = m(\widehat{BAD})$

$m(\widehat{AED}) = m(\widehat{ABC})$

$|AD| = 9$ br

$|DC| = 9$ br

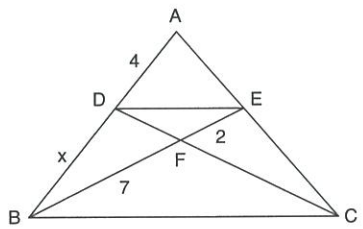
$|DF| = 6$ br

$\Rightarrow |AF| = ?$

A) 3 B) 6 C) 8 D) 9 E) 12

PUZA YAYINLARI

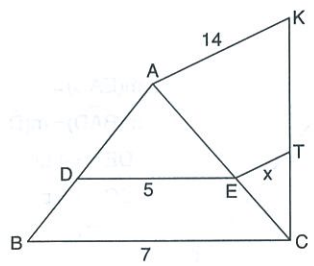
1.



[DE] // [BC]
|EF| = 2 br
|BF| = 7 br
|AD| = 4 br
⇒ |BD| = x = ?

A) $\frac{1}{2}$ B) 3 C) 10 D) 14 E) 18

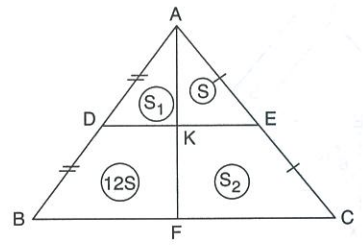
2.



[DE] // [BC]
[AK] // [ET]
|AK| = 14 br
|DE| = 5 br
|BC| = 7 br
⇒ |ET| = x = ?

A) 2 B) 3 C) 4 D) $\frac{49}{6}$ E) $\frac{98}{5}$

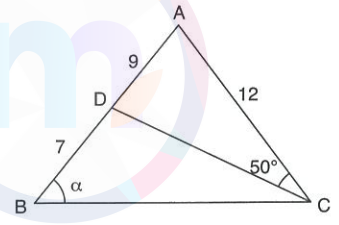
3.



|AD| = |DB|
|AE| = |EC|
12A(AKE) = A(DKFB)
A(ADK) = S_1
A(KECF) = S_2
⇒ $\frac{S_1}{S_2}$ = ?

A) $\frac{1}{12}$ B) $\frac{3}{4}$ C) 1 D) $\frac{4}{3}$ E) 12

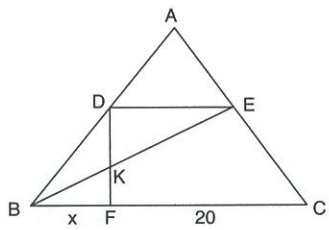
4.



|AD| = 9 br
|BD| = 7 br
|AC| = 12 br
m(ÂCD) = 50°
⇒ m(ÂBC) = α = ?

A) 25 B) 40 C) 50 D) 80 E) 100

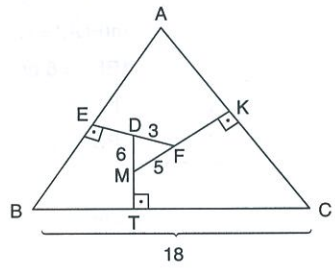
5.



[DE] // [BC]
|AD| = 2|BD|
|EK| = 3|BK|
|FC| = 20 br
⇒ |BF| = x = ?

A) $\frac{20}{7}$ B) $\frac{10}{3}$ C) $\frac{40}{7}$ D) 20 E) 40

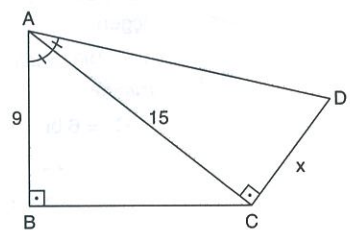
6.



[FE] ⊥ [AB]
[MK] ⊥ [AC]
[DT] ⊥ [BC]
|DF| = 3 br
|DM| = 6 br
|MF| = 5 br
|BC| = 18 br
⇒ Ç(ABC) = ?

A) 28 B) 42 C) 56 D) 70 E) 84

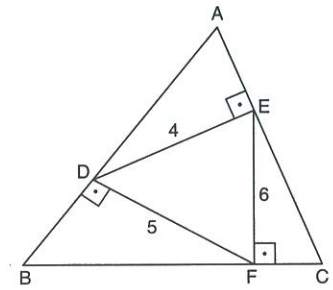
7.



[AB] ⊥ [BC]
[AC] ⊥ [CD]
|AB| = 9 br
|AC| = 15 br
⇒ |DC| = x = ?

A) 9 B) 12 C) 15 D) 20 E) 25

8.

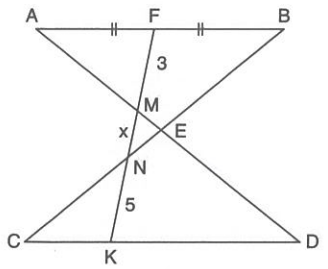


[DE] ⊥ [AC]
[FD] ⊥ [AB]
[EF] ⊥ [BC]
|DF| = 5 br
|DE| = 4 br
|EF| = 6 br
|BC| = 12 br
⇒ Ç(ABC) = ?

A) 15 B) 30 C) 45 D) 60 E) 75

PUZA YAYINLARI

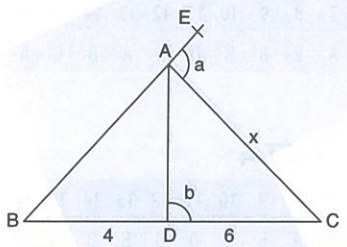
9.



$|AF| = |FB|$
$7|CK| = 3|KD|$
$[AB] \,//\, [CD]$
$|FM| = 3$ br
$|NK| = 5$ br
$\Rightarrow |MN| = x = ?$

A) 5 B) 4 C) 3 D) 2 E) 1

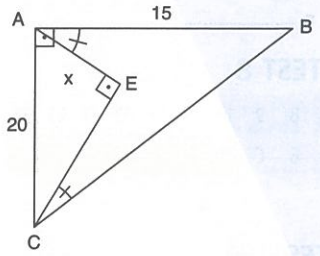
10.



$m(\widehat{EAC}) = a$
$m(\widehat{ADC}) = b$
$a + b = 180°$
$|BD| = 4$ br
$|DC| = 6$ br
$\Rightarrow |AC| = x = ?$

A) $\sqrt{5}$ B) $\sqrt{10}$ C) $\sqrt{15}$ D) $\sqrt{30}$ E) $2\sqrt{15}$

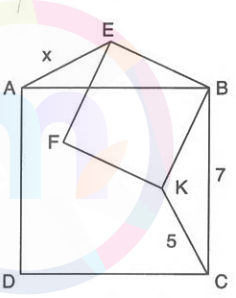
11.



$[CA] \perp [AB]$
$[AE] \perp [EC]$
$m(\widehat{BAE}) = m(\widehat{ECB})$
$|AC| = 20$ br
$|AB| = 15$ br
$\Rightarrow |AE| = x = ?$

A) $\sqrt{5}$ B) $\sqrt{10}$ C) $2\sqrt{10}$ D) $4\sqrt{10}$ E) $8\sqrt{10}$

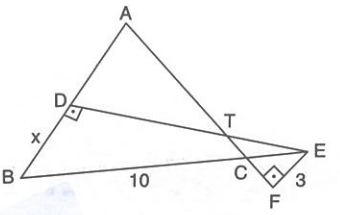
12.



ABCD ve EBKF kare
ABCD and EBKF square
$|BC| = 7$ br
$|KC| = 5$ br
$\Rightarrow |AE| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 7

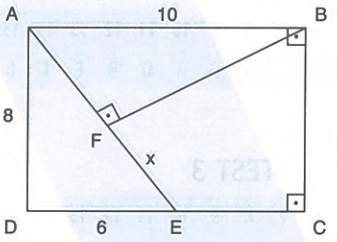
13.



$|AC| = |AB|$
$[ED] \perp [AB]$
$[EF] \perp [AF]$
$|BC| = 10$ br
$|CE| = 5$ br
$|EF| = 3$ br
$\Rightarrow |BD| = x = ?$

A) 6 B) 8 C) 9 D) 12 E) 15

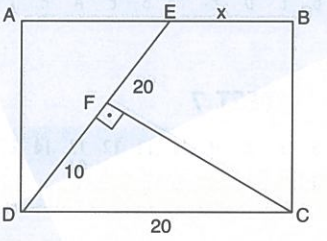
14.



ABCD dikdörtgen
ABCD rectangle
$[BF] \perp [AE]$
$|AB| = 10$ br
$|AD| = 8$ br
$|DE| = 6$ br
$\Rightarrow |FE| = x = ?$

A) 10 B) 8 C) 6 D) 4 E) 2

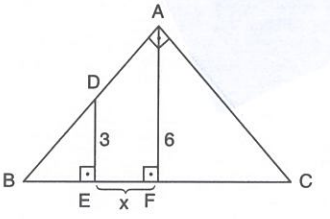
15.



ABCD dikdörtgen
ABCD rectangle
$[DE] \perp [FC]$
$|EF| = 20$ br
$|DF| = 10$ br
$|DC| = 20$ br
$\Rightarrow |EB| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

16.



$[BA] \perp [AC]$
$[DE] \perp [BC]$
$[AF] \perp [BC]$
$|AF| = 6$ br
$|DE| = 3$ br
$A(AFC) = 4A(BDE)$
$\Rightarrow |EF| = x = ?$

A) 6 B) 5 C) 4 D) 3 E) 2

PUZA YAYINLARI

ÜÇGENDE BENZERLİK TRIANGLE SIMILARITIES

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	E	E	D	C	C	A	D	A	D	B	E	C	D	B

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	D	D	A	E	A	E	B	B	D	D	A	B	C	A

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	B	E	C	B	D	D	E	C	E	C	E	B	B	A

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	E	D	B	D	C	A	B	D	D	D	B	B	A	C

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	A	D	C	B	E	D	E	E	B	E	A	B	C	D

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	B	D	D	E	B	C	D	D	D	C	D	E	A	C

TEST 7

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	B	B	A	B	C	C	C	D	C	C	E	B	A	E

TEST 8

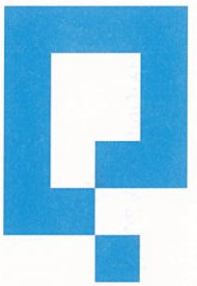
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	E	B	A	B	B	B	C	D	B	A	D	C	C	A

TEST 9

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	B	C	C	D	B	A	D	C	C	B	D	E	D	D	B

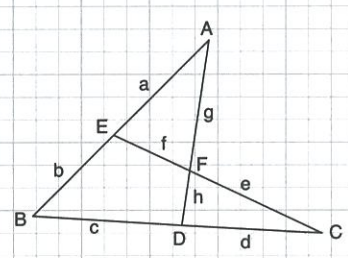
TEST 10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	D	C	C	B	D	B	D	E	C	D	D	D	E	D



MENELAUS-SEVA
CARNOT-STEWART
MENELAUS-CEVA
CARNOT-STEWART

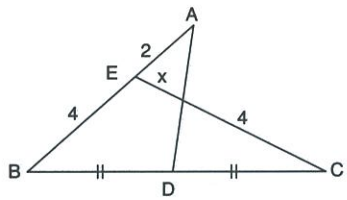
ÖZELLİK|Property 1



$$\frac{a}{a+b}\cdot\frac{c}{d}\cdot\frac{e}{f}=1$$

$$\frac{d}{d+c}\cdot\frac{b}{a}\cdot\frac{g}{h}=1$$

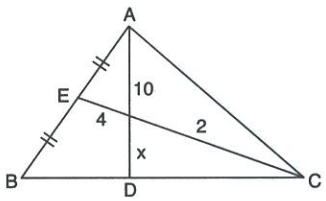
1.



$\Rightarrow x = ?$

$\frac{4}{3}$

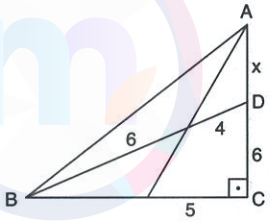
2.



$\Rightarrow x = ?$

2

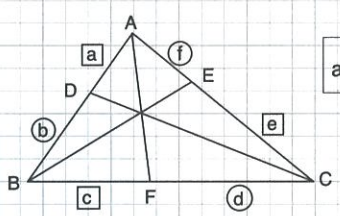
3.



$\Rightarrow x = ?$

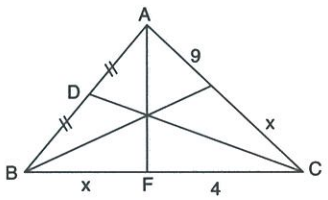
4

ÖZELLİK|Property 2



$$a\cdot c\cdot e = b\cdot d\cdot f$$

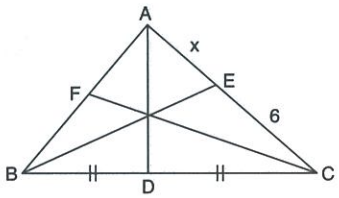
1.



$\Rightarrow x = ?$

6

2.

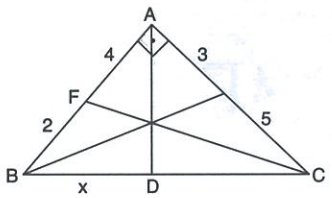


$|AB| = 3|AF|$

$\Rightarrow x = ?$

3

3.

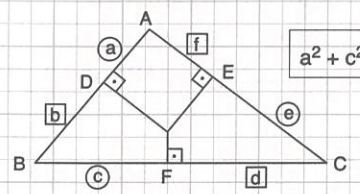


$\Rightarrow x = ?$

$\frac{30}{13}$

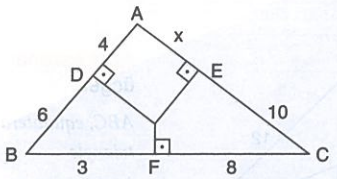
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 3



$$a^2 + c^2 + e^2 = b^2 + d^2 + f^2$$

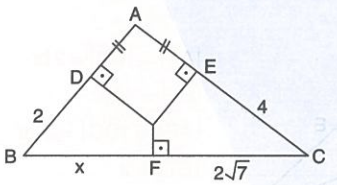
1.



$\Rightarrow x = ?$

5

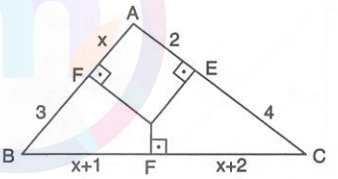
2.



$\Rightarrow x = ?$

4

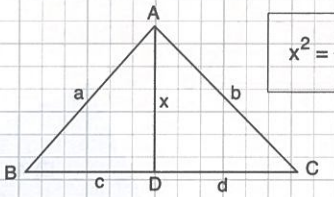
3.



$\Rightarrow x = ?$

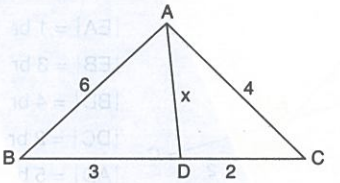
2

ÖZELLİK|Property 4



$$x^2 = \frac{b^2 \cdot c + a^2 \cdot d}{(c+d)} - c \cdot d$$

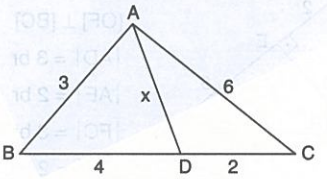
1.



$\Rightarrow x = ?$

$3\sqrt{2}$

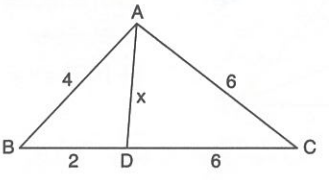
2.



$\Rightarrow x = ?$

$\sqrt{19}$

3.



$\Rightarrow x = ?$

3

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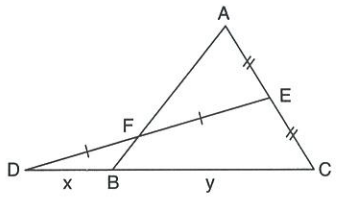
PUZA YAYINLARI
PUZA YAYINLARI

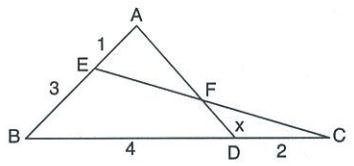
1.



$|AE| = |EC|$
$|DF| = |FE|$
$|DB| = x$
$|BC| = y$
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) 1 D) 2 E) 4

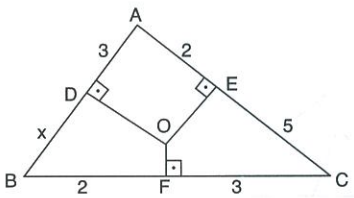
2.



$|EA| = 1$ br
$|EB| = 3$ br
$|BD| = 4$ br
$|DC| = 2$ br
$|AD| = 5$ br
$\Rightarrow |FD| = x = ?$

A) $\frac{2}{5}$ B) $\frac{5}{4}$ C) $\frac{5}{2}$ D) $\frac{8}{5}$ E) $\frac{8}{7}$

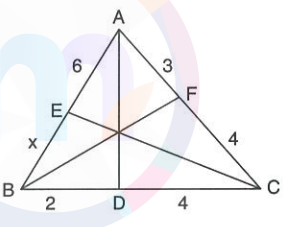
3.



$[OD] \perp [AB]$
$[OE] \perp [AC]$
$[OF] \perp [BC]$
$|AD| = 3$ br
$|AE| = 2$ br
$|FC| = 3$ br
$|BF| = 2$ br
$|EC| = 5$ br
$\Rightarrow |DB| = x = ?$

A) 4 B) 5 C) $4\sqrt{2}$ D) $4\sqrt{3}$ E) 8

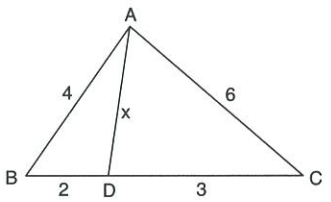
4.



$|BD| = 2$ br
$|AF| = 3$ br
$|DC| = |FC| = 4$ br
$|AE| = 6$ br
$\Rightarrow |BE| = x = ?$

A) 2 B) 3 C) 4 D) 6 E) 12

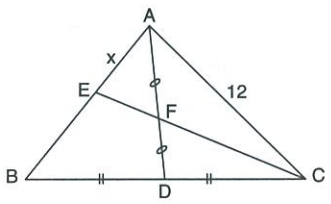
5.



$|BD| = 2$ br
$|DC| = 3$ br
$|AB| = 4$ br
$|AC| = 6$ br
$\Rightarrow |AD| = x = ?$

A) $\sqrt{6}$ B) $2\sqrt{3}$ C) $\sqrt{14}$ D) $3\sqrt{2}$ E) 5

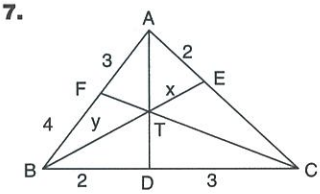
6.



ABC eşkenar üçgen
ABC, equilateral triangle
$|AC| = 12$ br
$|AF| = |FD|$
$|BD| = |DC|$
$\Rightarrow |AE| = x = ?$

A) 4 B) 6 C) 8 D) 9 E) 10

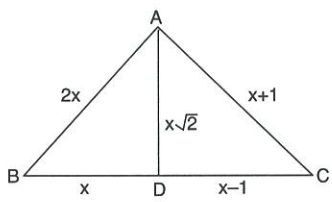
7.



$|AE| = |BD| = 2$ br
$|BF| = 4$ br
$|AF| = |DC| = 3$ br
$|ET| = x$
$|BT| = y$
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{1}{3}$ B) $\frac{1}{2}$ C) 1 D) 2 E) 3

8.



$|AB| = 2|BD| = 2x$
$|AC| = x + 1$
$|DC| = x - 1$
$|AD| = x\sqrt{2}$
$\Rightarrow x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

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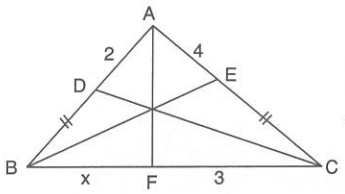
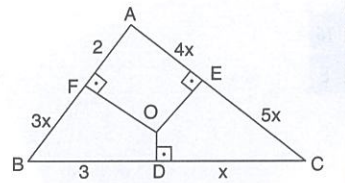
9.



$|EC| = |BD| = 2$ br
$|AE| = 4$ br
$|FC| = 3$ br
$\Rightarrow |BF| = x = ?$

A) 2 B) 3 C) 4 D) 6 E) 12

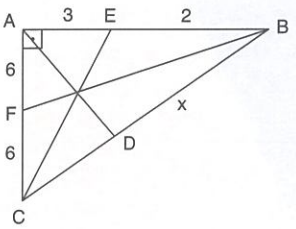
10.



$[OE] \perp [AC]$
$[OF] \perp [AB]$
$[OD] \perp [BC]$
$|BF| = 3x$
$|AE| = 4x$
$|EC| = 5x$
$|AF| = 2$ br
$|BD| = 3$ br
$\Rightarrow |DC| = x = ?$

A) 2 B) 3 C) $\sqrt{6}$ D) $\sqrt{11}$ E) $\sqrt{13}$

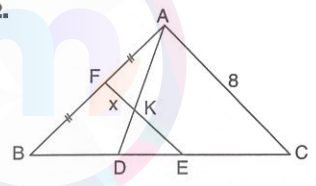
11.



$[BA] \perp [AC]$
$|AF| = |FC| = 6$ br
$|AE| = 3$ br
$|EB| = 2$ br
$\Rightarrow |DB| = x = ?$

A) 1 B) $\frac{13}{5}$ C) 3 D) $\frac{26}{5}$ E) $\frac{35}{3}$

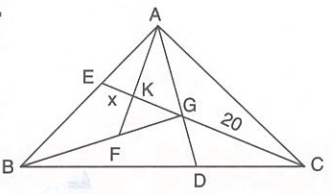
12.



$|BF| = |FA|$
$|AC| = 8$ br
$3|BD| = 6|DE| = 2|EC|$
$\Rightarrow |FK| = x = ?$

A) $\frac{1}{3}$ B) $\frac{3}{4}$ C) 1 D) 2 E) 3

13.



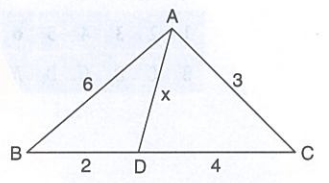
G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

$2|BF| = |FG|$
$|GC| = 20$ br
$\Rightarrow |EK| = x = ?$

A) 1 B) 2 C) 4 D) 8 E) 6

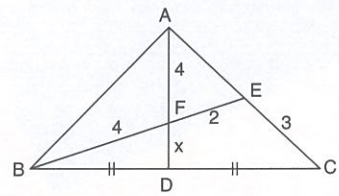
14.



$|AC| = 3$ br
$|AB| = 6$ br
$|BD| = 2$ br
$|DC| = 4$ br
$\Rightarrow |AD| = x = ?$

A) $\sqrt{19}$ B) 4 C) $2\sqrt{3}$ D) $2\sqrt{2}$ E) 12

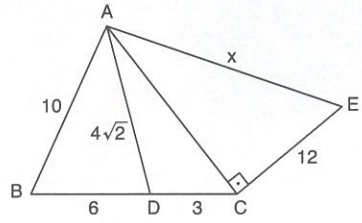
15.



$|BD| = |DC|$
$|AF| = |BF| = 4$ br
$|EF| = 2$ br
$|EC| = 3$ br
$\Rightarrow |FD| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 6

16.



$[AC] \perp [CE]$
$|AD| = 4\sqrt{2}$ br
$|AB| = 10$ br
$|DC| = 3$ br
$|EC| = 12$ br
$|BD| = 6$ br
$\Rightarrow |AE| = x = ?$

A) $\sqrt{29}$ B) $\sqrt{30}$ C) 6 D) 10 E) 13

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MENELAUS-SEVA-CARNOT-STEWART
Yanıt Anahtarı

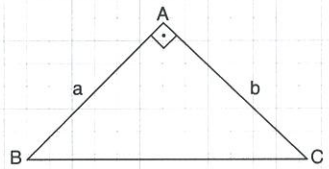
MENELAUS-CEVA-CARNOT-STEWART
Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	B	C	D	A	B	B	D	E	D	D	B	A	B	E

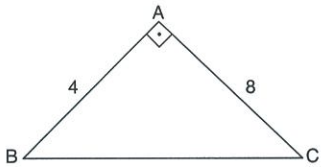
ÜÇGENDE ALAN
AREAS OF TRIANGLES

ÖZELLİK|Property 1



$$A(ABC) = \frac{a \cdot b}{2}$$

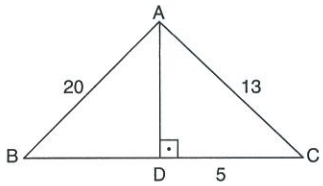
1.



⇒ A(ABC) = ?

16

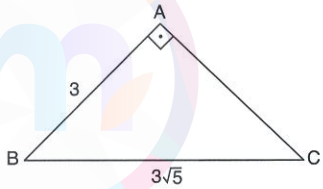
2.



⇒ A(ABC) = ?

126

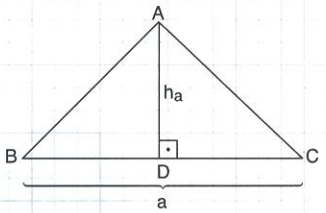
3.



⇒ A(ABC) = ?

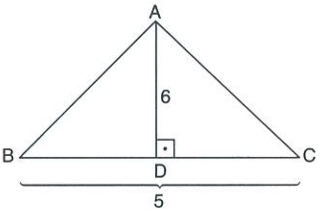
9

ÖZELLİK|Property 2



$$A(ABC) = \frac{a \cdot h_a}{2}$$

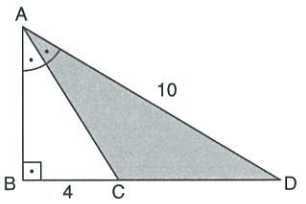
1.



⇒ A(ABC) = ?

15

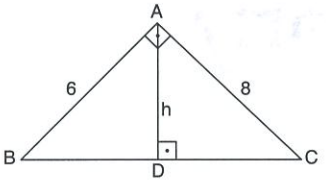
2.



⇒ A(ACD) = ?

20

3.



⇒ h = ?

4,8

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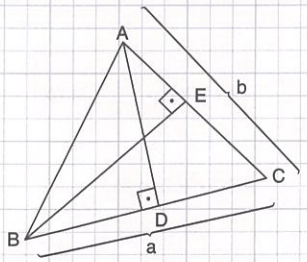
PUZA YAYINLARI

ÖZELLİK|Property 3

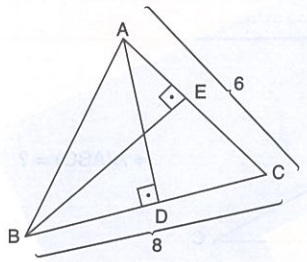


$|AD| = h_a$

$|BE| = h_b$

$$A(ABC) = \frac{a \cdot h_a}{2} = \frac{b \cdot h_b}{2}$$

1.

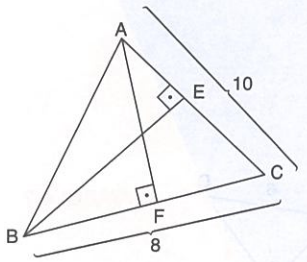


$|AD| = 3$ br

$\Rightarrow |BE| = ?$

4

2.

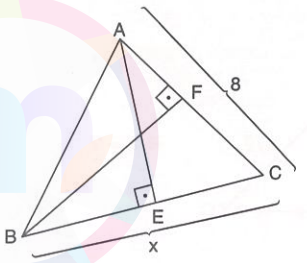


$|BE| = 6$ br

$\Rightarrow |AF| = ?$

$\frac{15}{2}$

3.



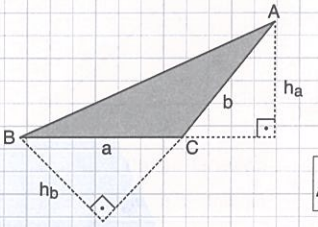
$|AE| = 4$ br

$|BF| = 6$ br

$\Rightarrow x = ?$

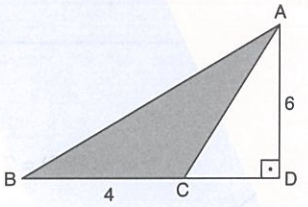
12

ÖZELLİK|Property 4



$$A(ABC) = \frac{a \cdot h_a}{2} = \frac{b \cdot h_b}{2}$$

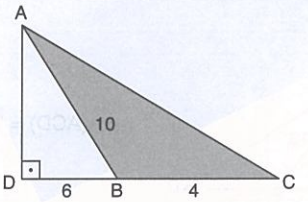
1.



$\Rightarrow A(ABC) = ?$

12

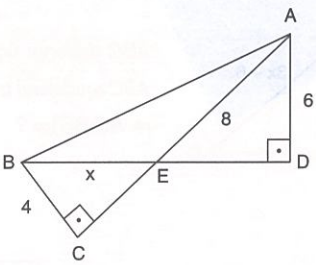
2.



$\Rightarrow A(ABC) = ?$

16

3.



$\Rightarrow x = ?$

$\frac{16}{3}$

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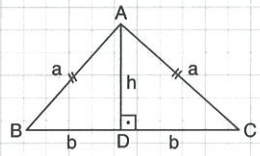
PUZA YAYINLARI

ÖZELLİK|Property 5

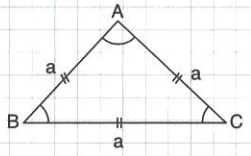


İkizkenar üçgen

Isosceles triangle

$b^2 + h^2 = a^2$

$$A(ABC) = \frac{2b \cdot h}{2} = b \cdot h$$

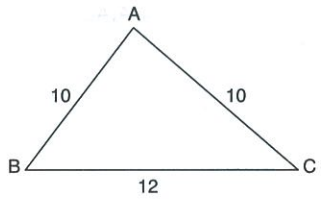


Eşkenar üçgen

Equilateral triangle

$$A(ABC) = \frac{a^2\sqrt{3}}{4}$$

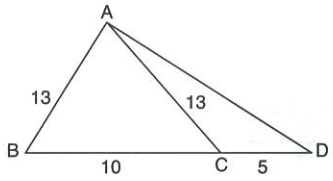
1.



⇒ A(ABC) = ?

48

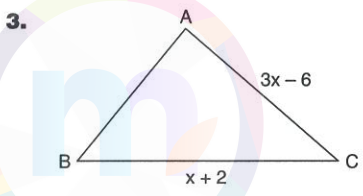
2.



⇒ A(ACD) = ?

30

3.



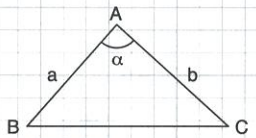
ABC eşkenar üçgen

ABC equilateral triangle

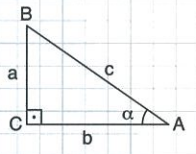
⇒ A(ABC) = ?

$9\sqrt{3}$

ÖZELLİK|Property 6



$$A(ABC) = \frac{a \cdot b}{2} \cdot \sin\alpha$$

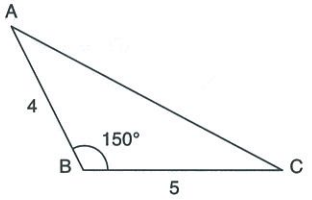


ABC dik üçgen

ABC right triangle

$$\sin\alpha = \frac{a}{c}$$

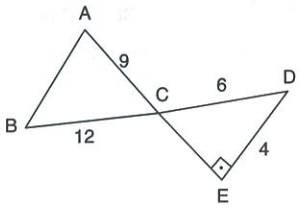
1.



⇒ A(ABC) = ?

5

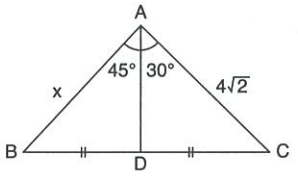
2.



⇒ A(ABC) = ?

36

3.

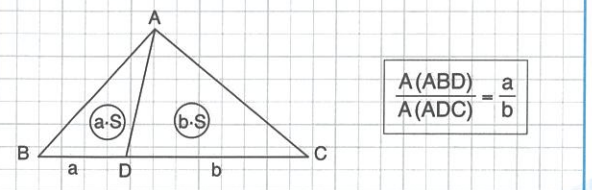


⇒ x = ?

4

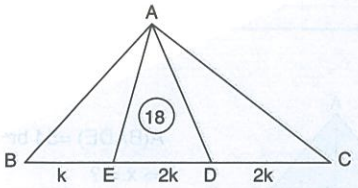
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK | Property 7



$$\frac{A(ABD)}{A(ADC)} = \frac{a}{b}$$

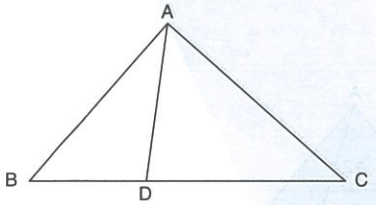
1.



⇒ A(ABC) = ?

45

2.



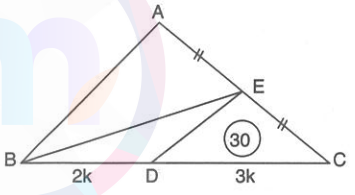
A(ABC) = 70

3|BD| = 4|DC|

⇒ A(ADC) = ?

30

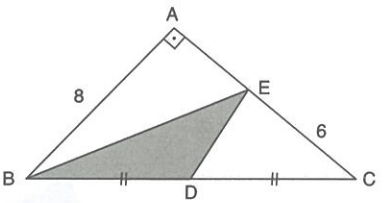
3.



⇒ A(ABC) = ?

100

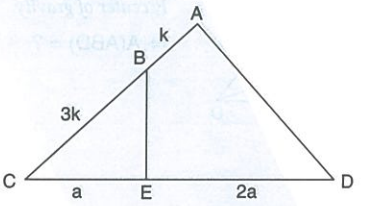
4.



⇒ A(EBD) = ?

12

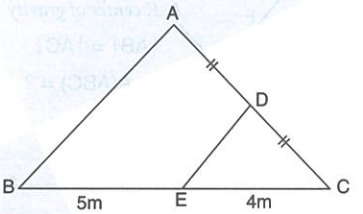
5.



$$\Rightarrow \frac{A(BCE)}{A(ADC)} = ?$$

$\frac{1}{4}$

6.

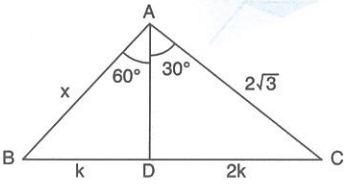


A(EDC) = 40 br²

⇒ A(ABC) = ?

180

7.



⇒ x = ?

1

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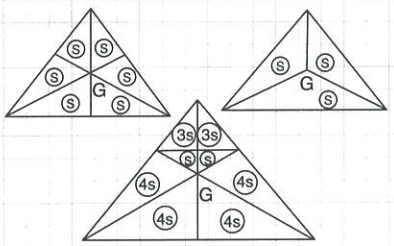
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

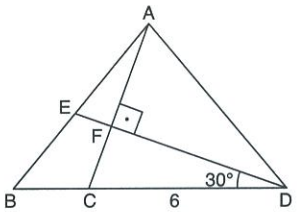
ÖZELLİK|Property 8



G ağırlık merkezi

G, center of gravity

1.



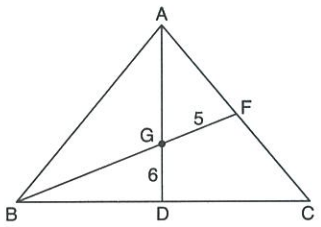
F Ağırlık merkezi

F, center of gravity

⇒ A(ABD) = ?

$27\sqrt{3}$

2.



F Ağırlık merkezi

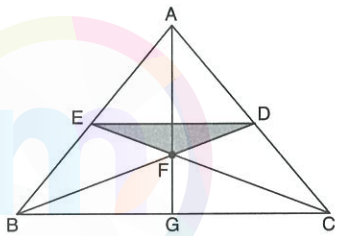
F, center of gravity

|AB| = |AC|

⇒ A(ABC) = ?

144

3.



F Ağırlık merkezi

F, center of gravity

A(ABC) = 72 br²

⇒ A(EDF) = ?

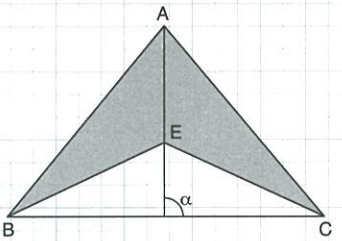
6

PUZA YAYINLARI

PUZA YAYINLARI

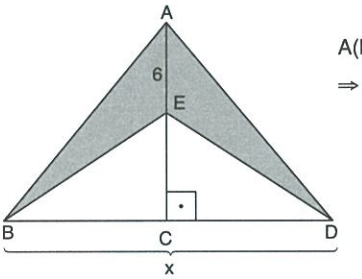
PUZA YAYINLARI

ÖZELLİK|Property 9



$$A(BACE) = \frac{1}{2} \cdot |BC| \cdot |AE| \cdot \sin\alpha$$

1.

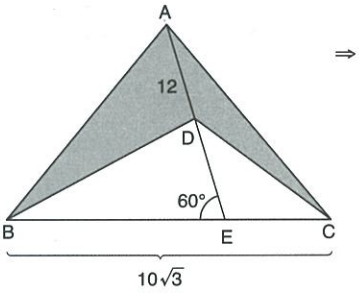


A(BADE) =54 br²

⇒ x = ?

18

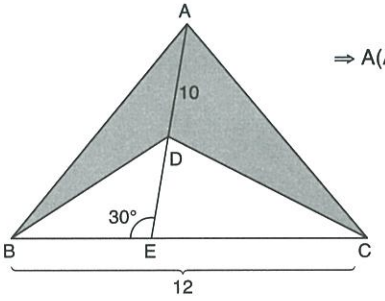
2.



⇒ A(ABDC) = ?

90

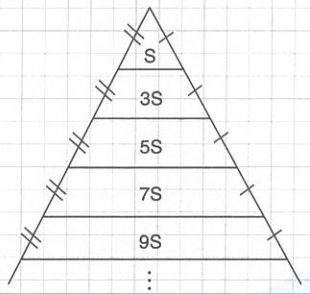
3.



⇒ A(ABDC) = ?

30

ÖZELLİK|Property 10

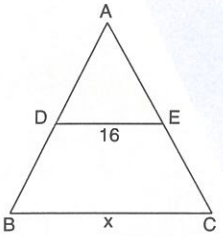


1.

$\Rightarrow A(ABC) = ?$

144

2.

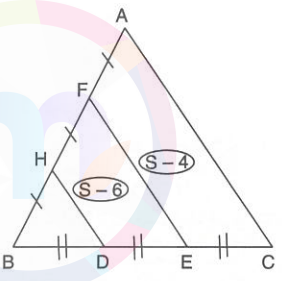


$A(ADE) = A(BCED)$

$\Rightarrow x = ?$

$16\sqrt{2}$

3.

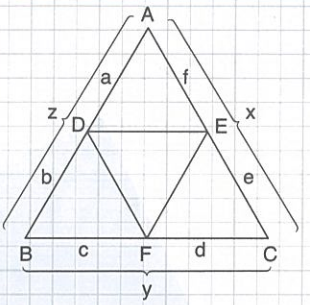


$\Rightarrow A(ABC) = ?$

9

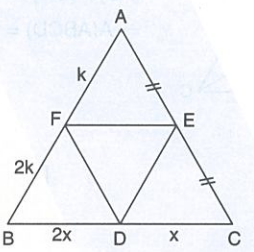
PUZA YAYINLARI

ÖZELLİK|Property 11



$$\frac{A(DEF)}{A(ABC)} = \frac{c \cdot e \cdot a + d \cdot f \cdot b}{x \cdot y \cdot z}$$

1.

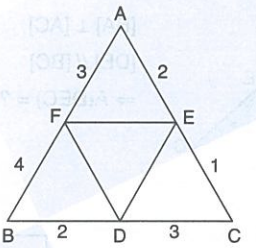


$A(DEF) = 4\ br^2$

$\Rightarrow A(ABC) = ?$

18

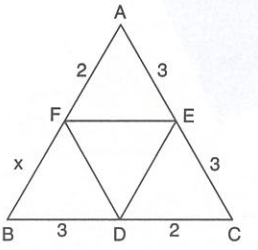
2.



$\Rightarrow \frac{A(DEF)}{A(ABC)} = ?$

$\frac{2}{7}$

3.



$\frac{A(DEF)}{A(ABC)} = \frac{7}{30}$

$\Rightarrow x = ?$

4

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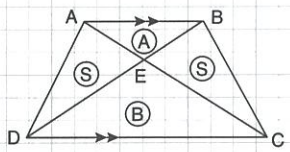
PUZA YAYINLARI

PUZA YAYINLARI

ÖZELLİK | Property 12

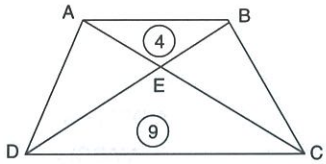


[AB] // [DC]

$A(AED) = A(EBC)$

$S \cdot S = A \cdot B$

1.

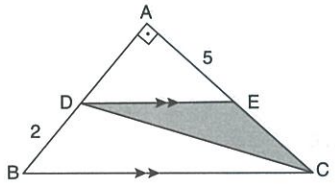


[AB] // [CD]

⇒ A(ABCD) = ?

25

2.



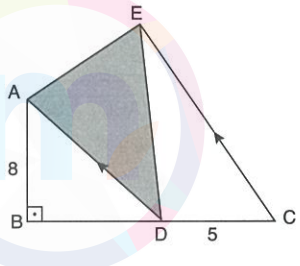
[BA] ⊥ [AC]

[DE] // [BC]

⇒ A(DEC) = ?

5

3.



[AB] ⊥ [BC]

[AD] // [EC]

⇒ A(ADE) = ?

20

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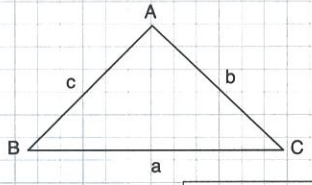
PUZA YAYINLARI

PUZA YAYINLARI

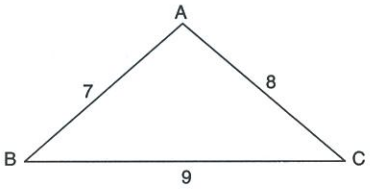
ÖZELLİK | Property 13



$$u = \frac{a+b+c}{2}$$

$$A(ABC) = \sqrt{u(u-a)(u-b)(u-c)}$$

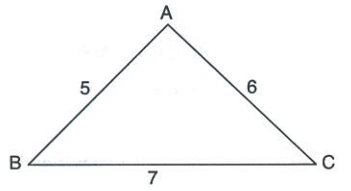
1.



⇒ A(ABC) = ?

$12\sqrt{5}$

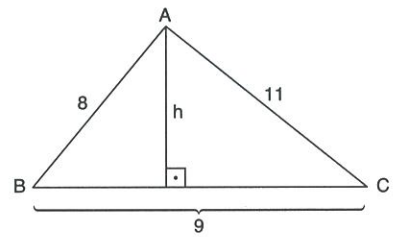
2.



⇒ A(ABC) = ?

$6\sqrt{6}$

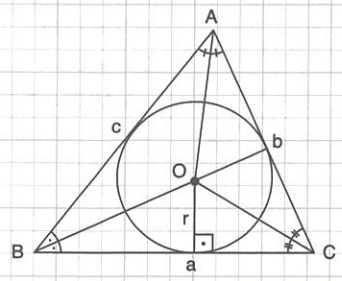
3.



⇒ h = ?

$\frac{4\sqrt{35}}{3}$

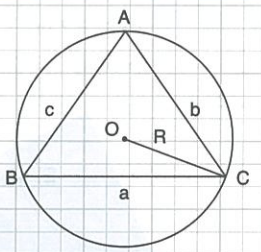
ÖZELLİK|Property 14



$$u = \frac{a+b+c}{2}$$

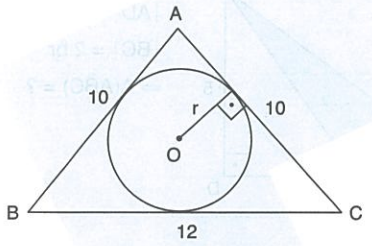
$$A(ABC) = u \cdot r$$

ÖZELLİK|Property 15



$$A(ABC) = \frac{a \cdot b \cdot c}{4 \cdot R}$$

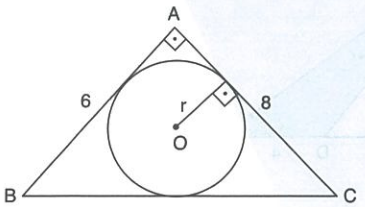
1.



$\Rightarrow r = ?$

3

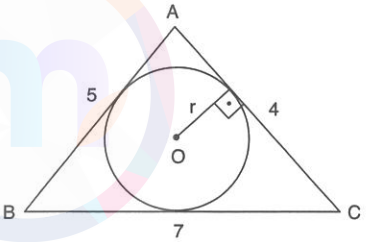
2.



$\Rightarrow r = ?$

2

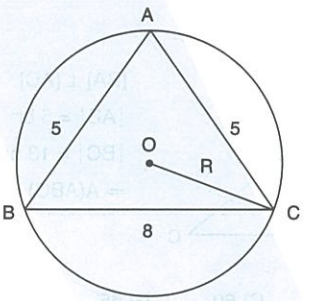
3.



$\Rightarrow r = ?$

$\frac{\sqrt{6}}{2}$

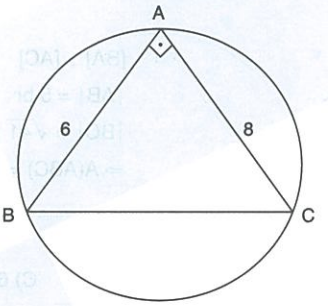
1.



$\Rightarrow R = ?$

$\frac{25}{6}$

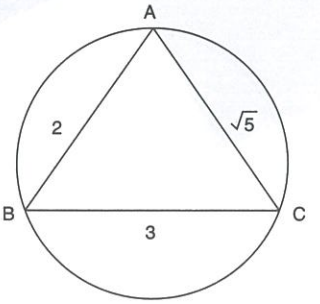
2.



$\Rightarrow R = ?$

5

3.



$\Rightarrow R = ?$

$\frac{3}{2}$

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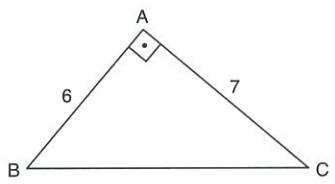
PUZA YAYINLARI
PUZA YAYINLARI

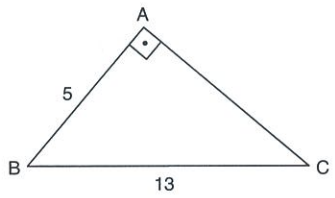
1.



[BA] ⊥ [AC]
|AB| = 6 br
|AC| = 7 br
⇒ A(ABC) = ?

A) 6 B) 7 C) 14 D) 21 E) 42

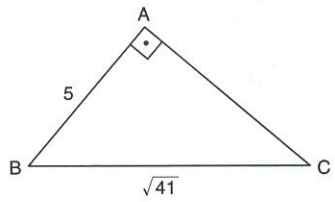
2.



[BA] ⊥ [AC]
|AB| = 5 br
|BC| = 13 br
⇒ A(ABC) = ?

A) 15 B) 30 C) 60 D) 65 E) 75

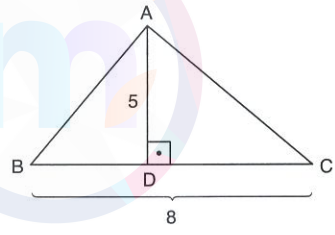
3.



[BA] ⊥ [AC]
|AB| = 5 br
|BC| = $\sqrt{41}$ br
⇒ A(ABC) = ?

A) 10 B) 20 C) 60
D) $5\sqrt{41}$ E) $10\sqrt{41}$

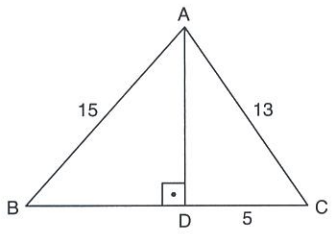
4.



[AD] ⊥ [BC]
|AD| = 5 br
|BC| = 8 br
⇒ A(ABC) = ?

A) 5 B) 8 C) 10 D) 20 E) 40

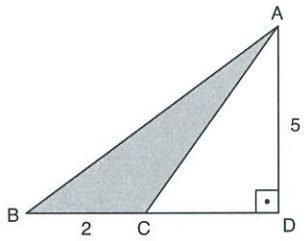
5.



[AD] ⊥ [BC]
|AB| = 15 br
|AC| = 13 br
|DC| = 5 br
⇒ A(ABC) = ?

A) 30 B) 54 C) 60 D) 64 E) 84

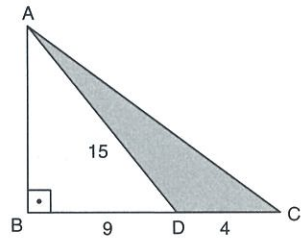
6.



[AD] ⊥ [BD]
|AD| = 5 br
|BC| = 2 br
⇒ A(ABC) = ?

A) 2 B) $\frac{5}{2}$ C) 5 D) 10 E) 20

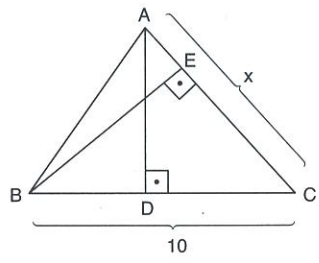
7.



[AB] ⊥ [BC]
|AD| = 15 br
|BD| = 9 br
|DC| = 4 br
⇒ A(ADC) = ?

A) 9 B) 18 C) 24 D) 48 E) 96

8.



[AD] ⊥ [BC]
[BE] ⊥ [AC]
|AD| = 6 br
|BE| = 5 br
|BC| = 10 br
⇒ |AC| = x = ?

A) 12 B) 13 C) 15 D) 16 E) 18

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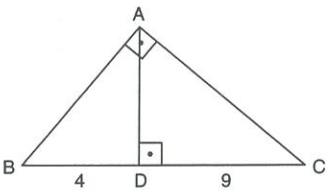
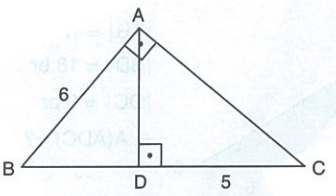
9.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$|DC| = 9$ br
$|BD| = 4$ br
$\Rightarrow A(ABC) = ?$

A) 78 B) 39 C) 36 D) 18 E) 12

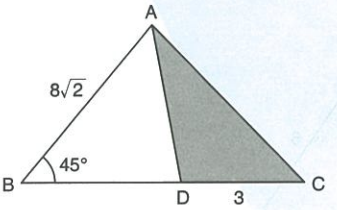
10.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$|AB| = 6$ br
$|DC| = 5$ br
$\Rightarrow A(ABC) = ?$

A) 15 B) 30 C) $9\sqrt{5}$ D) $18\sqrt{5}$ E) $36\sqrt{5}$

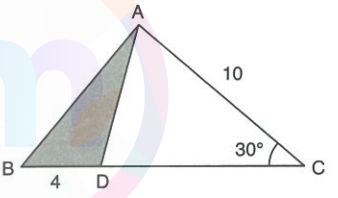
11.



$m(\widehat{ABC}) = 45°$
$|AB| = 8\sqrt{2}$ br
$|DC| = 3$ br
$\Rightarrow A(ADC) = ?$

A) 6 B) 12 C) $12\sqrt{2}$ D) 24 E) $24\sqrt{2}$

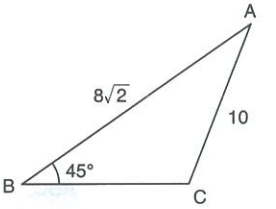
12.



$m(\widehat{ACB}) = 30°$
$|AC| = 10$ br
$|BD| = 4$ br
$\Rightarrow A(ABD) = ?$

A) 40 B) $20\sqrt{3}$ C) 20 D) $10\sqrt{3}$ E) 10

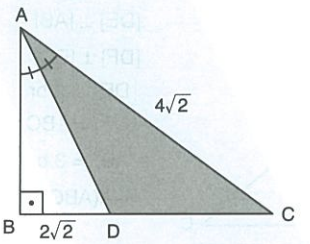
13.



$m(\widehat{ABC}) = 45°$
$|AB| = 8\sqrt{2}$ br
$|AC| = 10$ br
$\Rightarrow A(ABC) = ?$

A) $4\sqrt{2}$ B) 6 C) 8 D) 12 E) 16

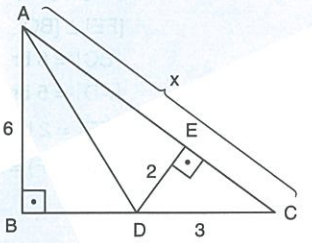
14.



$[AB] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|BD| = 2\sqrt{2}$ br
$|AC| = 4\sqrt{2}$ br
$\Rightarrow A(ADC) = ?$

A) 4 B) $4\sqrt{2}$ C) 8 D) $8\sqrt{2}$ E) 16

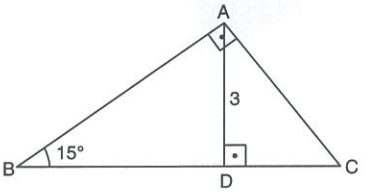
15.



$[AB] \perp [BC]$
$[DE] \perp [AC]$
$|AB| = 6$ br
$|DC| = 3$ br
$|DE| = 2$ br
$\Rightarrow |AC| = x = ?$

A) 9 B) 10 C) 12 D) 15 E) 18

16.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$m(\widehat{ABC}) = 15°$
$|AD| = 3$ br
$\Rightarrow A(ABC) = ?$

A) 6 B) 12 C) $\frac{27}{2}$ D) 18 E) 36

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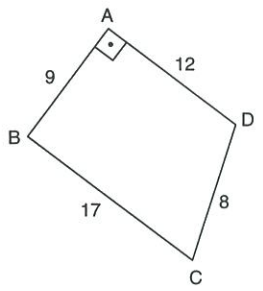
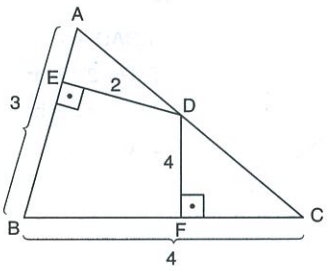
1.



$[BA] \perp [AD]$
$|AB| = 9$ br
$|AD| = 12$ br
$|BC| = 17$ br
$|CD| = 8$ br
$\Rightarrow A(ABCD) = ?$

A) 114 B) 122 C) 132 D) 144 E) 160

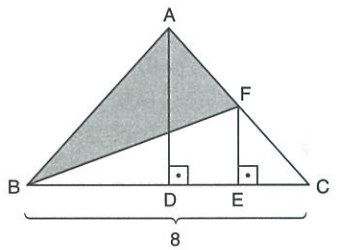
2.



$[DE] \perp [AB]$
$[DF] \perp [BC]$
$|DE| = 2$ br
$|DF| = |BC| = 4$ br
$|AB| = 3$ br
$\Rightarrow A(ABC) = ?$

A) 7 B) 8 C) 10 D) 11 E) 22

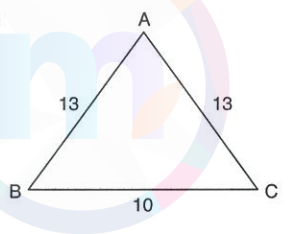
3.



$[AD] \perp [BC]$
$[FE] \perp [BC]$
$|BC| = 8$ br
$|AD| = 5$ br
$|FE| = 2$ br
$\Rightarrow A(ABF) = ?$

A) 24 B) 20 C) 16 D) 12 E) 8

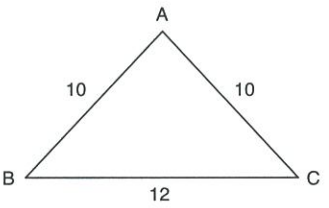
3.



$|AB| = |AC| = 13$ br
$|BC| = 10$ br
$\Rightarrow A(ABC) = ?$

A) 20 B) 30 C) 45 D) 60 E) 130

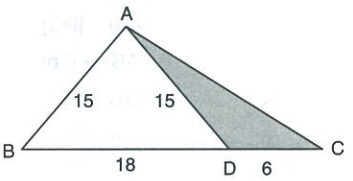
5.



$|AB| = |AC| = 10$ br
$|BC| = 12$ br
$\Rightarrow A(ABC) = ?$

A) 120 B) 96 C) 60 D) 48 E) 24

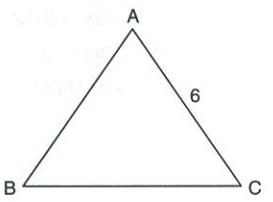
6.



$|AB| = |AD| = 15$ br
$|BD| = 18$ br
$|DC| = 6$ br
$\Rightarrow A(ADC) = ?$

A) 45 B) 40 C) 36 D) 15 E) 12

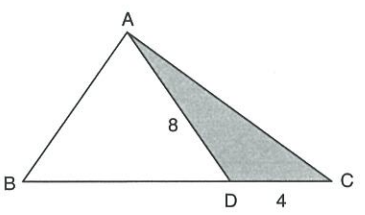
7.



ABC eşkenar üçgen
ABC equilateral triangle
$|AC| = 6$ br
$\Rightarrow A(ABC) = ?$

A) $36\sqrt{3}$ B) 36 C) $12\sqrt{3}$ D) $9\sqrt{3}$ E) 12

8.



ABD eşkenar üçgen
ABD equilateral triangle
$|DC| = 4$ br
$|AD| = 8$ br
$\Rightarrow A(ADC) = ?$

A) 64 B) 32 C) $16\sqrt{3}$ D) $12\sqrt{3}$ E) $8\sqrt{3}$

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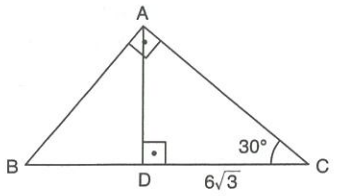
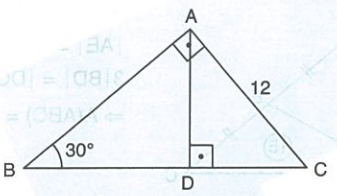
9.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$m(\widehat{ACB}) = 30°$
$|DC| = 6\sqrt{3}$ br
$\Rightarrow A(ABC) = ?$

A) $84\sqrt{3}$ B) $42\sqrt{3}$ C) $24\sqrt{3}$ D) $16\sqrt{3}$ E) $12\sqrt{3}$

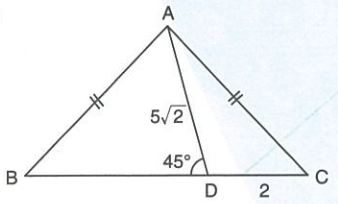
10.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$m(\widehat{ABC}) = 30°$
$|AC| = 12$ br
$\Rightarrow A(ABC) = ?$

A) $72\sqrt{3}$ B) 72 C) 36 D) 24 E) $18\sqrt{3}$

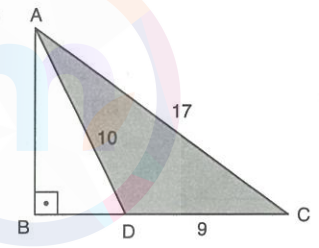
11.



$|AB| = |AC|$
$m(\widehat{ADB}) = 45°$
$|AD| = 5\sqrt{2}$ br
$|DC| = 2$ br
$\Rightarrow A(ABC) = ?$

A) 170 B) 85 C) 70 D) 35 E) 25

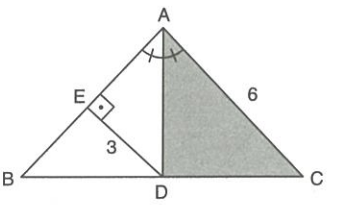
12.



$[AB] \perp [BC]$
$|AC| = 17$ br
$|AD| = 10$ br
$|DC| = 9$ br
$\Rightarrow A(ADC) = ?$

A) 54 B) 45 C) 36 D) 27 E) 18

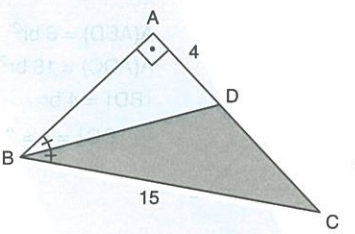
13.



$[DE] \perp [AB]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|ED| = 3$ br
$|AC| = 6$ br
$\Rightarrow A(DAC) = ?$

A) 9 B) 12 C) $9\sqrt{3}$ D) 18 E) $18\sqrt{3}$

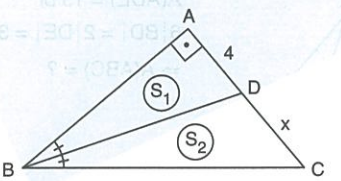
14.



$[BA] \perp [AC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AD| = 4$ br
$|BC| = 15$ br
$\Rightarrow A(DBC) = ?$

A) $\frac{15}{2}$ B) 15 C) 30 D) $30\sqrt{3}$ E) 60

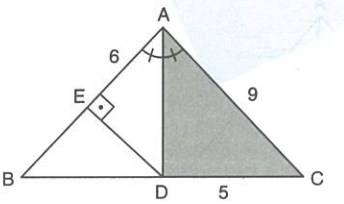
15.



$[BA] \perp [AC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$A(ABD) = S_1$
$A(DBC) = S_2$
$S_2 - S_1 = 6$ br^2
$|AD| = 4$ br
$\Rightarrow |DC| = x = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

16.



$[DE] \perp [AB]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AC| = 9$ br
$|DC| = 5$ br
$|AE| = 6$ br
$\Rightarrow A(ADC) = ?$

A) 6 B) 9 C) 18 D) $\frac{45}{2}$ E) 45

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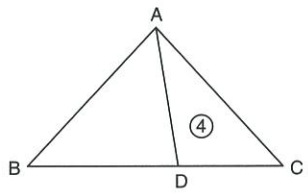
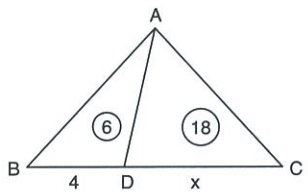
1.



$A(ADC) = 4\ br^2$
$3|DC| = 2|BD|$
$\Rightarrow A(ABC) = ?$

A) $\frac{8}{3}$ B) 6 C) $\frac{32}{3}$ D) 10 E) 12

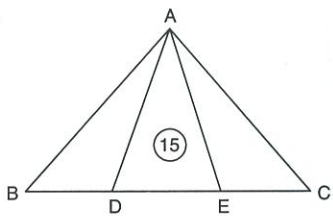
2.



$A(ABD) = 6\ br^2$
$A(ADC) = 18\ br^2$
$|BD| = 4\ br$
$\Rightarrow |DC| = x = ?$

A) $\frac{4}{3}$ B) 4 C) 8 D) 12 E) 15

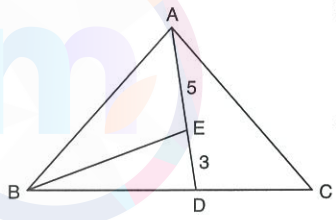
3.



$A(ADE) = 15\ br^2$
$6|BD| = 2|DE| = 3|EC|$
$\Rightarrow A(ABC) = ?$

A) 15 B) 20 C) 30 D) 45 E) 60

4.



$3|BD| = 2|DC|$
$|AE| = 5\ br$
$|ED| = 3\ br$
$\Rightarrow \frac{A(ADC)}{A(EBD)} = ?$

A) 4 B) 5 C) 6 D) 8 E) 10

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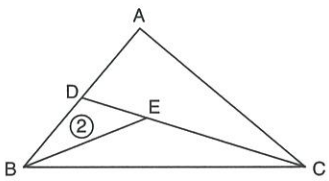
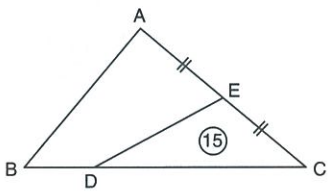
5.



$A(BDE) = 2\ br^2$
$3|AD| = 2|BD|$
$2|DE| = |EC|$
$\Rightarrow A(ABC) = ?$

A) $\frac{11}{3}$ B) 4 C) 5 D) 7 E) 10

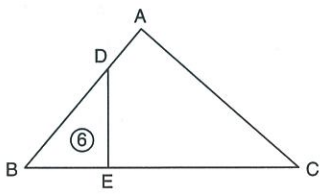
6.



$A(EDC) = 15\ br^2$
$|AE| = |EC|$
$3|BD| = |DC|$
$\Rightarrow A(ABC) = ?$

A) 50 B) 40 C) 30 D) 20 E) 15

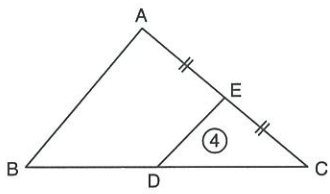
7.



$A(DBE) = 6\ br^2$
$2|AD| = |BD|$
$3|BE| = |EC|$
$\Rightarrow A(ADEC) = ?$

A) 27 B) 30 C) 33 D) 36 E) 39

8.



$A(EDC) = 4\ br^2$
$|AE| = |EC|$
$2|BD| = 3|DC|$
$\Rightarrow A(ABC) = ?$

A) 8 B) 10 C) 12 D) 16 E) 20

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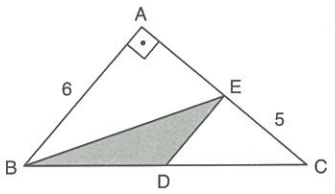
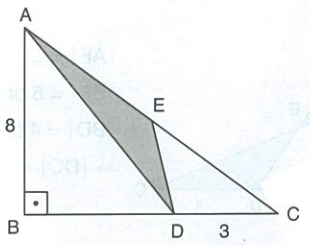
9.



$[BA] \perp [AC]$
$|AB| = 6$ br
$|EC| = 5$ br
$3|BD| = 2|DC|$
$\Rightarrow A(EBD) = ?$

A) 30 B) 15 C) 12 D) 9 E) 6

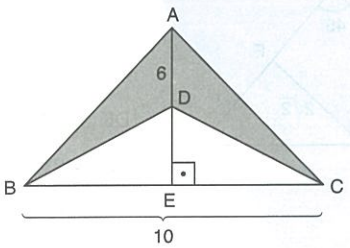
10.



$[AB] \perp [BC]$
$2|AE| = |EC|$
$|AB| = 8$ br
$|DC| = 3$ br
$\Rightarrow A(AED) = ?$

A) 4 B) 6 C) 8 D) 12 E) 15

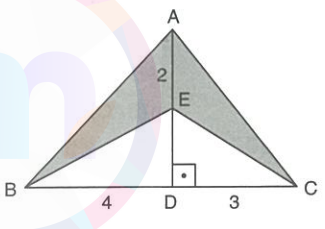
11.



$[AE] \perp [BC]$
$|AD| = 6$ br
$|BC| = 10$ br
$\Rightarrow A(ABDC) = ?$

A) 120 B) 60 C) 45 D) 30 E) 15

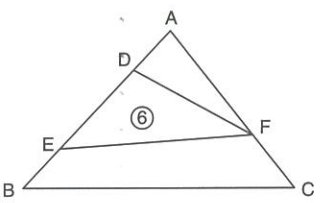
12.



$[AD] \perp [BC]$
$|AE| = 2$ br
$|BD| = 4$ br
$|DC| = 3$ br
$\Rightarrow A(ABEC) = ?$

A) 3 B) 4 C) 6 D) 7 E) 14

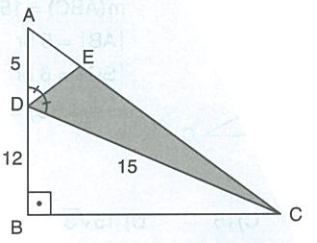
13.



$A(DFE) = 6$ br^2
$2|AD| = |DE| = 2|EB|$
$3|AF| = 2|FC|$
$\Rightarrow A(ABC) = ?$

A) 8 B) 12 C) 15 D) 20 E) 30

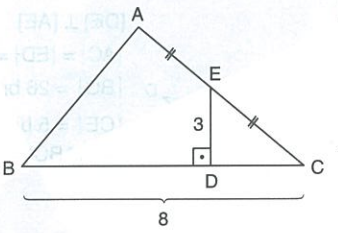
14.



$[AB] \perp [BC]$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$|AD| = 5$ br
$|DC| = 15$ br
$|BD| = 12$ br
$\Rightarrow A(EDC) = ?$

A) 5 B) $\frac{45}{8}$ C) $\frac{135}{8}$ D) $\frac{45}{2}$ E) 45

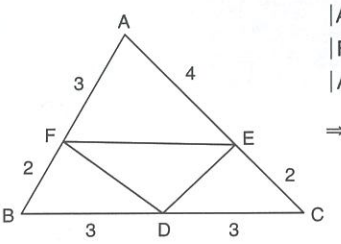
15.



$[ED] \perp [BC]$
$|AE| = |EC|$
$|ED| = 3$ br
$|BC| = 8$ br
$\Rightarrow A(ABC) = ?$

A) 60 B) 48 C) 36 D) 24 E) 12

16.



$|AF| = |BD| = |DC| = 3$ br
$|FB| = |EC| = 2$ br
$|AE| = 4$ br
$\Rightarrow \frac{A(FED)}{A(ABC)} = ?$

A) $\frac{1}{5}$ B) $\frac{2}{7}$ C) $\frac{7}{30}$ D) $\frac{7}{15}$ E) $\frac{1}{2}$

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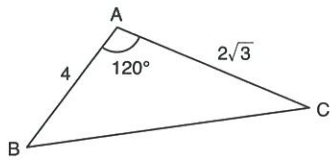
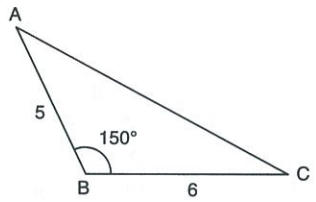
1.



$m(\widehat{BAC}) = 120°$
$|AB| = 4$ br
$|AC| = 2\sqrt{3}$ br
$\Rightarrow A(ABC) = ?$

A) 15 B) $8\sqrt{3}$ C)12 D) $4\sqrt{3}$ E) 6

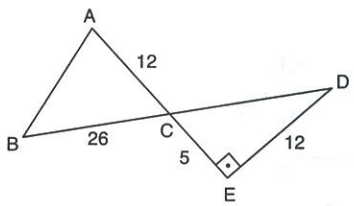
2.



$m(\widehat{ABC}) = 150°$
$|AB| = 5$ br
$|BC| = 6$ br
$\Rightarrow A(ABC) = ?$

A) $\frac{15}{2}$ B) $\frac{15\sqrt{3}}{2}$ C)15 D) $15\sqrt{3}$ E) 30

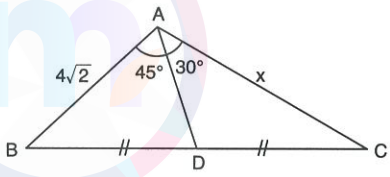
3.



$[DE] \perp [AE]$
$|AC| = |ED| = 12$ br
$|BC| = 26$ br
$|CE| = 5$ br
$\Rightarrow A(ABC) = ?$

A) 144 B) 81 C) 72 D) 69 E) 60

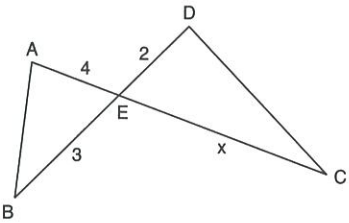
4.



$|BD| = |DC|$
$m(\widehat{BAD}) = 45°$
$m(\widehat{DAC}) = 30°$
$|AB| = 4\sqrt{2}$ br
$\Rightarrow |AC| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 12

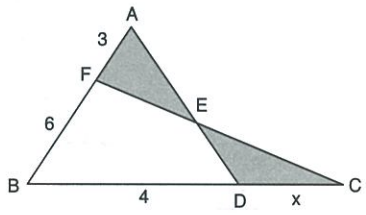
5.



$A(ABE) = A(ECD)$
$|ED| = 2$ br
$|AE| = 4$ br
$|BE| = 3$ br
$\Rightarrow |EC| = x = ?$

A) 12 B) 8 C) 6 D) 3 E) $\frac{3}{2}$

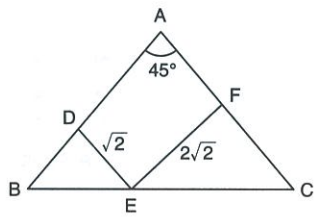
6.



$A(AFE) = A(EDC)$
$|AF| = 3$ br
$|BF| = 6$ br
$|BD| = 4$ br
$\Rightarrow |DC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 6

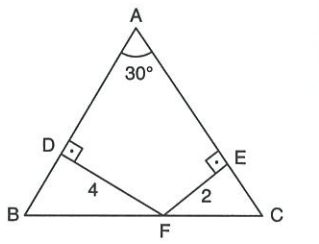
7.



AFED paralelkenar
AFED parallelogram
$|AB| = |AC|$
$m(\widehat{BAC}) = 45°$
$|DE| = \sqrt{2}$ br
$|FE| = 2\sqrt{2}$ br
$\Rightarrow A(ABC) = ?$

A) 4 B) $4\sqrt{2}$ C) $\frac{9\sqrt{2}}{2}$ D) $6\sqrt{2}$ E) $9\sqrt{2}$

8.



$[FD] \perp [AB]$
$[FE] \perp [AC]$
$|AB| = |AC|$
$m(\widehat{BAC}) = 30°$
$|FD| = 2$ br
$|FE| = 4$ br
$\Rightarrow A(ABC) = ?$

A) 9 B) 12 C) $9\sqrt{2}$ D) 18 E) 36

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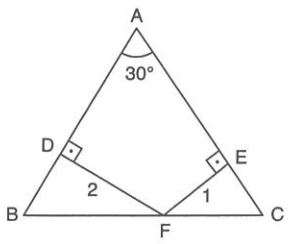
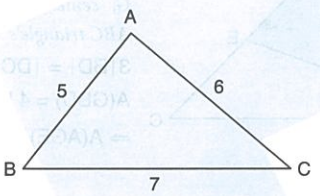
9.



$m(\widehat{BAC}) = 30°$
$|AB| = |AC|$
$[FE] \perp [AC]$
$[FD] \perp [AB]$
$|DF| = 2$ br
$|EF| = 1$ br
$\Rightarrow A(ABC) = ?$

A) $36\sqrt{3}$ B) 36 C) 27 D) $18\sqrt{3}$ E) 9

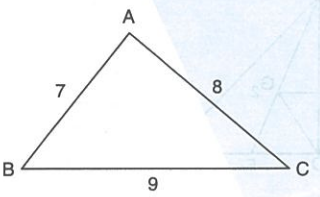
10.



$|AB| = 5$ br
$|AC| = 6$ br
$|BC| = 7$ br
$\Rightarrow A(ABC) = ?$

A) $2\sqrt{6}$ B) $3\sqrt{6}$ C) $6\sqrt{6}$ D) $12\sqrt{3}$ E) $24\sqrt{3}$

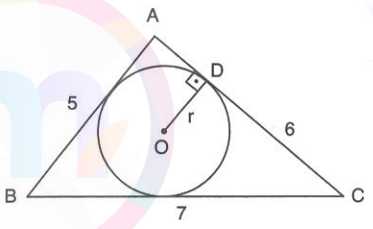
11.



$|AB| = 7$ br
$|AC| = 8$ br
$|BC| = 9$ br
$\Rightarrow A(ABC) = ?$

A) $6\sqrt{5}$ B) $6\sqrt{7}$ C) $9\sqrt{5}$ D) $12\sqrt{7}$ E) $12\sqrt{5}$

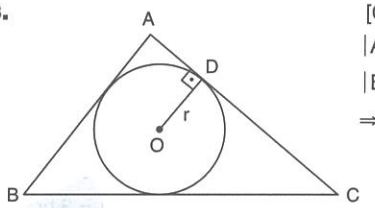
12.



$[OD] \perp [AC]$
$|AB| = 5$ br
$|AC| = 6$ br
$|BC| = 7$ br
$\Rightarrow |OD| = r = ?$

A) $\sqrt{6}$ B) $2\sqrt{3}$ C) $\frac{2\sqrt{6}}{3}$ D) $2\sqrt{6}$ E) $3\sqrt{6}$

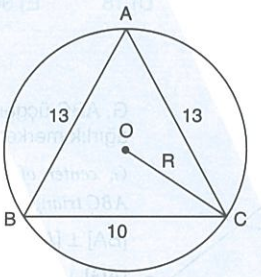
13.



$[OD] \perp [AC]$
$|AB| = |AC| = 10$ br
$|BC| = 12$ br
$\Rightarrow |OD| = r = ?$

A) 5 B) 4 C) 3 D) 2 E) 1

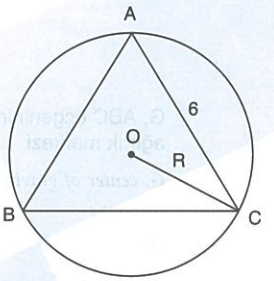
14.



$|AB| = |AC| = 13$ br
$|BC| = 10$ br
$\Rightarrow |OC| = R = ?$

A) $\frac{5}{72}$ B) $\frac{24}{169}$ C) $\frac{169}{24}$ D) $\frac{72}{5}$ E) 12

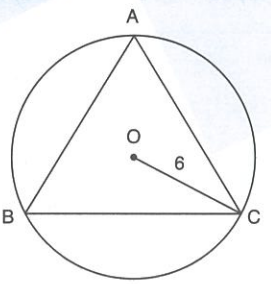
15.



ABC eşkenar üçgen
ABC equilateral triangle
$|AC| = 6$ br
$\Rightarrow |OC| = R = ?$

A) $\sqrt{3}$ B) 2 C) 3 D) $2\sqrt{3}$ E) $4\sqrt{3}$

16.



ABC eşkenar üçgen
ABC equilateral triangle
$|OC| = 6$ br
$\Rightarrow A(ABC) = ?$

A)18 B) $18\sqrt{3}$ C) 27 D) $27\sqrt{3}$ E) 36

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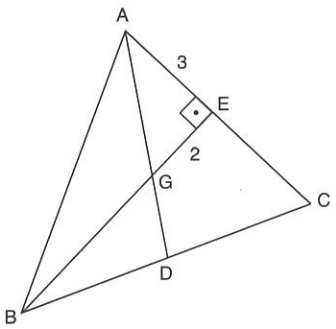
1.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[BE] ⊥ [AC]

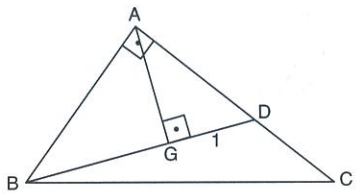
|GE| = 2 br

|AE| = 3 br

⇒ A(ABC) = ?

A) 6 B) 8 C)12 D) 18 E) 36

2.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[BA] ⊥ [AC]

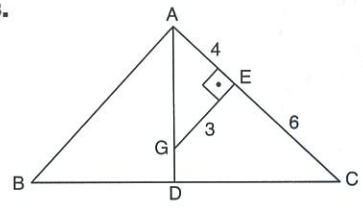
[AG] ⊥ [BD]

|GD| = 1 br

⇒ A(ABC) = ?

A) $\sqrt{2}$ B) $2\sqrt{2}$ C)$3\sqrt{2}$ D) $6\sqrt{2}$ E) $12\sqrt{2}$

3.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[AC] ⊥ [GE]

|AE| = 4 br

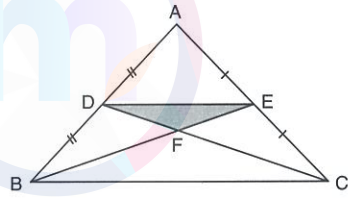
|GE| = 3 br

|EC| = 6 br

⇒ A(ABC) = ?

A) 15 B) 30 C) 45 D) 60 E) 90

4.



|AD| = |DB|

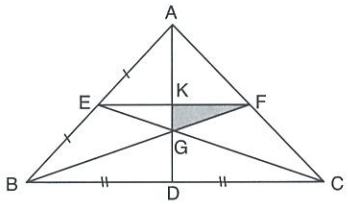
|AE| = |EC|

A(DEF) = 4 br^2

⇒ A(ABC) = ?

A) 16 B) 24 C) 36 D) 48 E) 96

5.



|AE| = |EB|

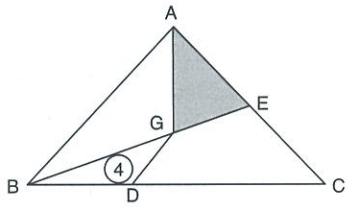
|BD| = |DC|

A(ABC) = 96 br^2

⇒ A(KFG) = ?

A) 4 B) $\frac{16}{3}$ C) 12 D) 16 E) 18

6.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

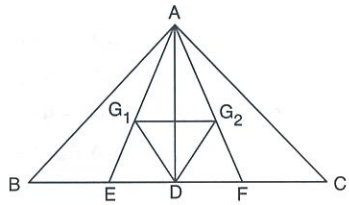
3|BD| = |DC|

A(GBD) = 4 br^2

⇒ A(AGE) = ?

A) 2 B) 4 C) 6 D) 8 E) 12

7.



G_1, ABD üçgeninin ağırlık merkezi

G_1, center of gravity ABD triangle's

G_2, ADC üçgeninin ağırlık merkezi

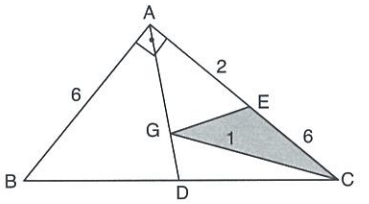
G_2, center of gravity ADC triangle's

A(G_1DG_2) = 6 br^2

⇒ A(ABC) = ?

A) 54 B) 48 C) 36 D) 27 E) 18

8.



G, ABC üçgeninin ağırlık merkezi

G, center of gravity ABC triangle's

[BA] ⊥ [AC]

|AB| = |EC| = 6 br

|AE| = 2 br

⇒ A(EGC) = ?

A) 2 B) 4 C) 6 D) 8 E) 12

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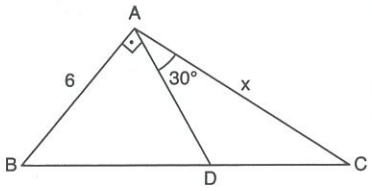
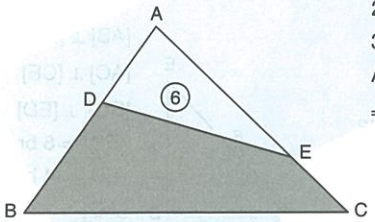
9.



$[BA] \perp [AD]$
$m(\widehat{DAC}) = 30°$
$|BD| = 3|DC|$
$|AB| = 6$ br
$\Rightarrow |AC| = x = ?$

A) 2 B) 4 C) $4\sqrt{2}$ D) 6 E) 12

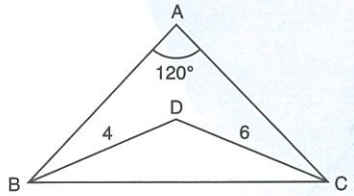
10.



$2|AD| = |BD|$
$3|EC| = 2|AE|$
$A(ADE) = 6$ br^2
$\Rightarrow A(DECB) = ?$

A) 24 B) 15 C) 9 D) 6 E) 5

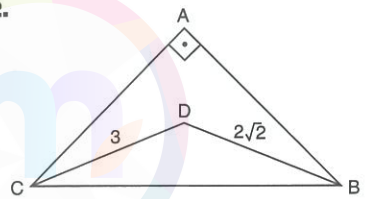
11.



D, iç teget çemberin merkezi
D, central point of the incircle
$m(\widehat{BAC}) = 120°$
$|BD| = 4$ br
$|DC| = 6$ br
$\Rightarrow A(BDC) = ?$

A) 6 B) $6\sqrt{3}$ C) 12 D) $12\sqrt{3}$ E) 24

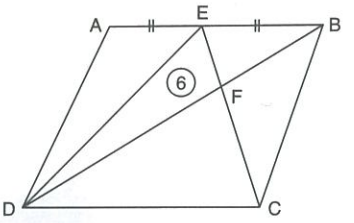
12.



D, iç teget çemberin merkezi
D, central point of the incircle
$m(\widehat{BAC}) = 90°$
$|DC| = 3$ br
$|DB| = 2\sqrt{2}$ br
$\Rightarrow A(BDC) = ?$

A) $\frac{3\sqrt{2}}{2}$ B) 3 C) $3\sqrt{2}$ D) 6 E) $6\sqrt{2}$

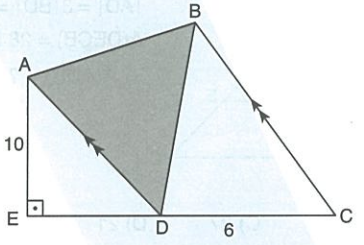
13.



ABCD parelelkenar
ABCD parallelogram
$|AE| = |EB|$
$A(EFD) = 6$ br^2
$\Rightarrow A(EFB) = ?$

A) 3 B) 6 C) 9 D) 12 E) 15

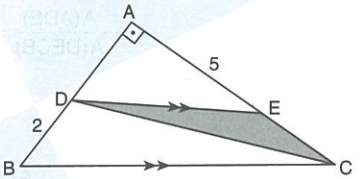
14.



$[AE] \perp [EC]$
$[AD] \,//\, [BC]$
$|AE| = 10$ br
$|DC| = 6$ br
$\Rightarrow A(ABD) = ?$

A) 15 B) 30 C) 45 D) 60 E) 120

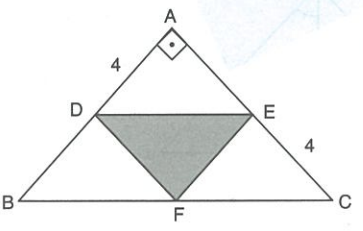
15.



$[BA] \perp [AC]$
$[DE] \,//\, [BC]$
$|AE| = 5$ br
$|BD| = 2$ br
$\Rightarrow A(DEC) = ?$

A) 25 B) 20 C) 15 D) 10 E) 5

16.

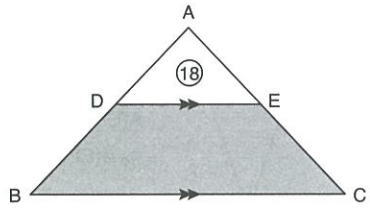


$[BA] \perp [AC]$
$[DE] \,//\, [BC]$
$|AD| = |EC| = 4$ br
$\Rightarrow A(DEF) = ?$

A) 2 B) 4 C) 8 D) 12 E) 16

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

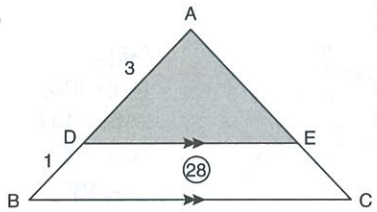
1.



$[DE] \parallel [BC]$
$5|DE| = 3|BC|$
$A(ADE) = 18\ br^2$
$\Rightarrow A(DECB) = ?$

A) 9 B) 12 C)16 D) 30 E) 32

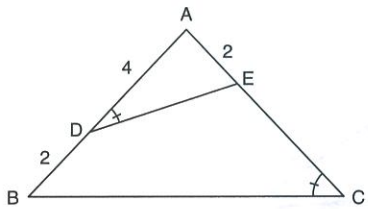
2.



$[DE] \parallel [BC]$
$|AD| = 3|BD| = 3\ br$
$A(DECB) = 28\ br^2$
$\Rightarrow A(ADE) = ?$

A) 45 B) 36 C) 27 D) 21 E) 9

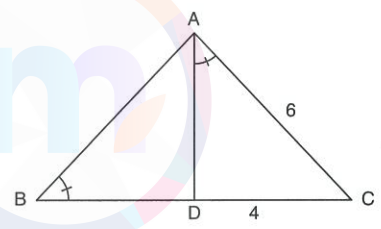
3.



$m(\widehat{ADE}) = m(\widehat{ACB})$
$|AE| = |BD| = 2\ br$
$|AD| = 4\ br$
$\Rightarrow \dfrac{A(ADE)}{A(DECB)} = ?$

A) 1 B) $\frac{1}{2}$ C) $\frac{1}{3}$ D) $\frac{1}{8}$ E) $\frac{1}{9}$

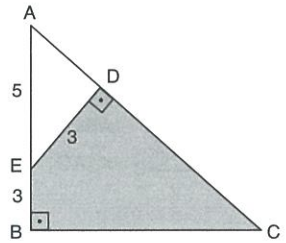
4.



$m(\widehat{DAC}) = m(\widehat{ABC})$
$|AC| = 6\ br$
$|DC| = 4\ br$
$\Rightarrow \dfrac{A(ADC)}{A(ABD)} = ?$

A) $\frac{4}{9}$ B) $\frac{2}{3}$ C) $\frac{4}{5}$ D) $\frac{3}{2}$ E) 2

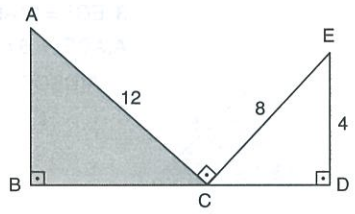
5.



$[AB] \perp [BC]$
$[ED] \perp [AC]$
$|ED| = |EB| = 3\ br$
$|AE| = 5\ br$
$\Rightarrow A(EDCB) = ?$

A) 42 B) 36 C) 27 D) 18 E) 9

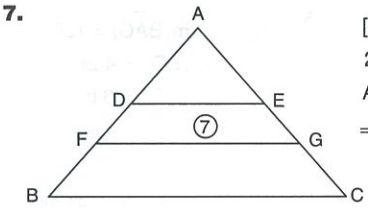
6.



$[AB] \perp [BD]$
$[AC] \perp [CE]$
$[BD] \perp [ED]$
$|EC| = 8\ br$
$|ED| = 4\ br$
$|AC| = 12\ br$
$\Rightarrow A(ABC) = ?$

A) $36\sqrt{3}$ B) 36 C) $18\sqrt{3}$ D) 18 E) 9

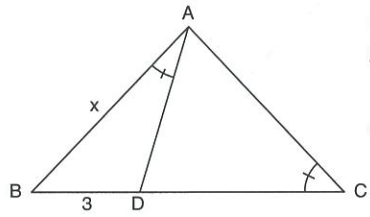
7.



$[DE] \parallel [FG] \parallel [BC]$
$2|AD| = 6|FD| = 3|FB|$
$A(DEGF) = 7\ br^2$
$\Rightarrow A(ADE) + A(FGCB) = ?$

A) 40 B) 31 C) 30 D) 29 E) 20

8.

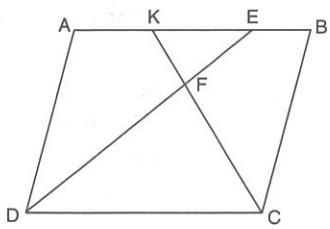


$m(\widehat{BAD}) = m(\widehat{ACB})$
$8 \cdot A(ABD) = A(ADC)$
$|BD| = 3\ br$
$\Rightarrow |AB| = x = ?$

A) 1 B) 6 C) 9 D) 12 E) 24

PUZA YAYINLARI

9.



ABCD paralelkenar

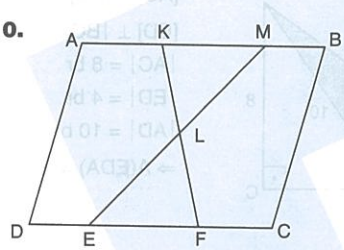
ABCD parallelogram

$2|AK| = 2|EB| = |KE|$

$\Rightarrow \dfrac{A(KEF)}{A(DFC)} = ?$

A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) 1 D) 2 E) 4

10.



ABCD paralelkenar

ABCD parallelogram

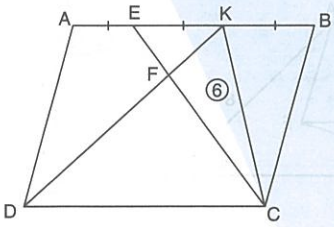
$6|BM| = 2|KM| = 3|AK|$

$2|DE| = 2|FC| = |EF|$

$\Rightarrow \dfrac{A(KML)}{A(EFL)} = ?$

A) $\frac{2}{9}$ B) $\frac{1}{4}$ C) 1 D) $\frac{3}{2}$ E) 4

11.



ABCD paralelkenar

ABCD parallelogram

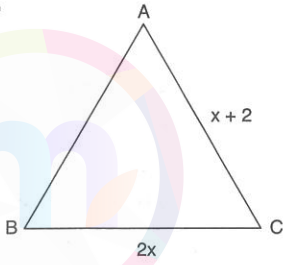
$|AE| = |EK| = |KB|$

$A(FKC) = 6$ br

$\Rightarrow A(ABCD) = ?$

A) 18 B) 24 C) 32 D) 48 E) 60

12.



ABC eşkenar üçgen

ABC equilateral triangle

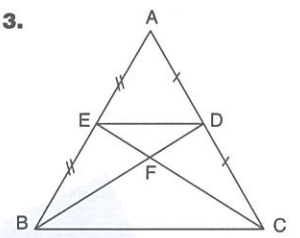
$|AC| = x + 2$

$|BC| = 2x$

$\Rightarrow A(ABC) = ?$

A) $2\sqrt{3}$ B) $4\sqrt{3}$ C) $16\sqrt{3}$ D) 16 E) 24

13.



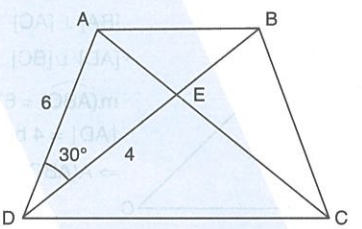
$|AD| = |DC|$

$|AE| = |EB|$

$\Rightarrow \dfrac{A(EDF)}{A(ABC)} = ?$

A) $\frac{1}{8}$ B) $\frac{1}{4}$ C) $\frac{2}{21}$ D) $\frac{1}{12}$ E) $\frac{1}{24}$

14.



[AB] // [DC]

$2|AB| = |DC|$

$m(\widehat{ADB}) = 30°$

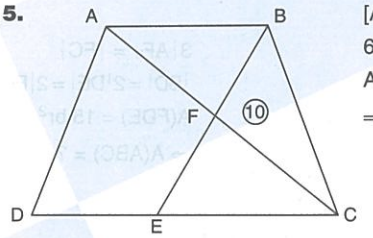
$|AD| = 6$ br

$|DE| = 4$ br

$\Rightarrow A(ABCD) = ?$

A) $9\sqrt{3}$ B) 18 C) $18\sqrt{3}$ D) 27 E) $27\sqrt{3}$

15.



[AB] // [DC]

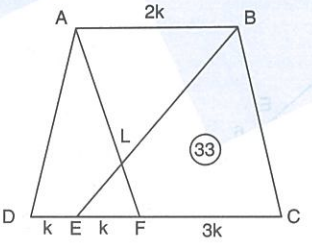
$6|AB| = 3|EC| = 2|DE|$

$A(BFC) = 10$ br^2

$\Rightarrow A(ABCD) = ?$

A) 120 B) 90 C) 75 D) 45 E) 30

16.



[AB] // [DC]

$|DE| = |EF| = k$

$|AB| = 2k$

$|EF| = 3k$

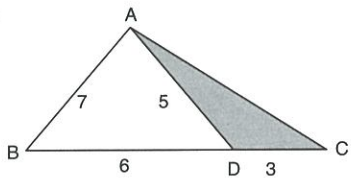
$A(LBCF) = 33$ br^2

$\Rightarrow A(ABCD) = ?$

A) 99 B) 90 C) 77 D) 63 E) 54

PUZA YAYINLARI

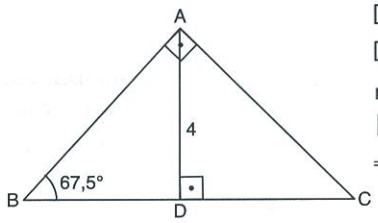
1.



$|AB| = 7$ br
$|AD| = 5$ br
$|BD| = 6$ br
$|DC| = 3$ br
$\Rightarrow A(ADC) = ?$

A) $12\sqrt{6}$ B) $15\sqrt{2}$ C) $6\sqrt{6}$ D) $4\sqrt{6}$ E) $3\sqrt{6}$

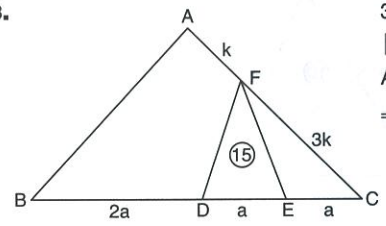
2.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$m(\widehat{ABC}) = 67{,}5°$
$|AD| = 4$ br
$\Rightarrow A(ABC) = ?$

A) $4\sqrt{2}$ B) 6 C) $8\sqrt{2}$ D) 16 E) $16\sqrt{2}$

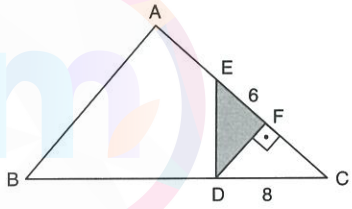
3.



$3|AF| = |FC|$
$|BD| = 2|DE| = 2|EC|$
$A(FDE) = 15$ br^2
$\Rightarrow A(ABC) = ?$

A) 45 B) 60 C) 65 D) 75 E) 80

4.

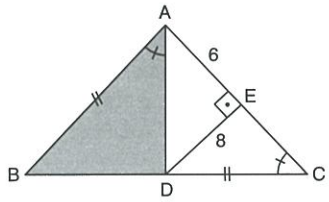


ABC eşkenar üçgen
ABC equilateral triangle
$|EF| = 6$ br
$|DC| = 8$ br
$[DF] \perp [AC]$
$\Rightarrow A(EFD) = ?$

A) 12 B) $12\sqrt{3}$ C) 24 D) $24\sqrt{3}$ E) 48

PUZA YAYINLARI

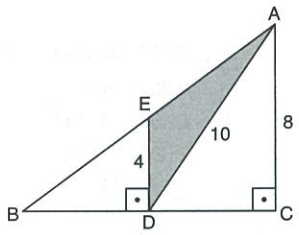
5.



$m(\widehat{BAD}) = m(\widehat{ACB})$
$[DE] \perp [AC]$
$|AB| = |DC|$
$|AE| = 6$ br
$|DE| = 8$ br
$\Rightarrow A(ABD) = ?$

A) 20 B) 24 C) 30 D) 40 E) 48

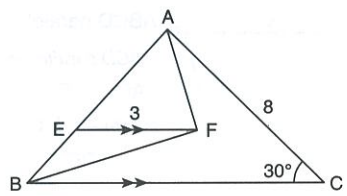
6.



$[AC] \perp [BC]$
$[ED] \perp |BC]$
$|AC| = 8$ br
$|ED| = 4$ br
$|AD| = 10$ br
$\Rightarrow A(EDA) = ?$

A) 30 B) 24 C) 18 D) 12 E) 6

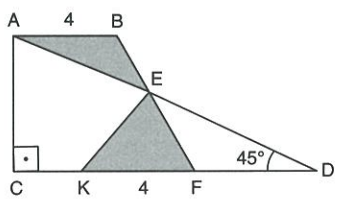
7.



$[EF] \,//\, [BC]$
$m(\widehat{ACB}) = 30°$
$|AC| = 8$ br
$|EF| = 3$ br
$\Rightarrow A(ABF) = ?$

A) $24\sqrt{3}$ B) $12\sqrt{3}$ C) 12 D) $6\sqrt{3}$ E) 6

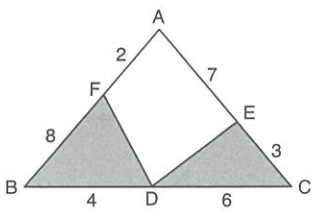
8.



$[AB] \,//\, [CD]$
$[AC] \perp [CD]$
$m(\widehat{ADC}) = 45°$
$|AB| = |KF| = 4$ br
$|AD| = 10\sqrt{2}$ br
$\Rightarrow A(ABE)+A(EKF)=?$

A) 60 B) 50 C) 40 D) 30 E) 20

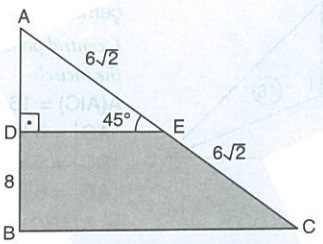
9.



$|BF| = 8$ br
$|AF| = 2$ br
$|AE| = 7$ br
$|EC| = 3$ br
$|DC| = 6$ br
$|BD| = 4$ br
$\Rightarrow A(BFD) + A(ECD) = ?$

A) $25\sqrt{3}$ B) $\frac{29\sqrt{3}}{2}$ C) $\frac{25\sqrt{3}}{2}$ D) $8\sqrt{3}$ E) $\frac{9\sqrt{3}}{2}$

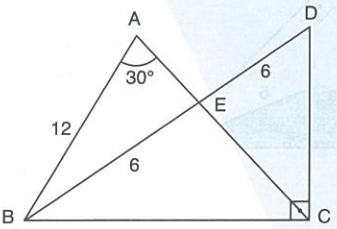
10.



$[ED] \perp [AB]$
$|AE| = |EC| = 6\sqrt{2}$ br
$|BD| = 8$ br
$m(\widehat{AED}) = 45°$
$\Rightarrow A(DECB) = ?$

A) 66 B) 56 C) 54 D) 50 E) 48

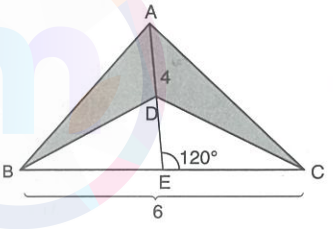
11.



$[DC] \perp [BC]$
$m(\widehat{BAC}) = 30°$
$|DE| = |EB| = 6$ br
$|AB| = 12$ br
$\Rightarrow A(BDC) = ?$

A) 36 B) 27 C) $18\sqrt{3}$ D) 19 E) 9

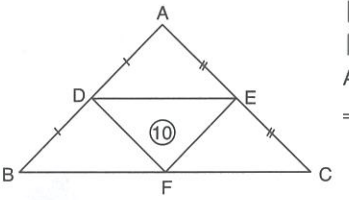
12.



$m(\widehat{AEC}) = 120°$
$|AD| = 4$ br
$|BC| = 6$ br
$\Rightarrow A(ABDC) = ?$

A) 6 B) $4\sqrt{3}$ C) $6\sqrt{3}$ D) 12 E) $12\sqrt{3}$

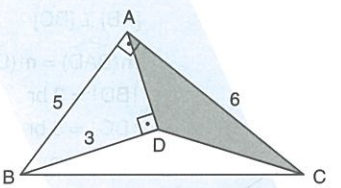
13.



$|AD| = |DB|$
$|AE| = |EC|$
$A(DEF) = 10$ br^2
$\Rightarrow A(ABC) = ?$

A) 20 B) 30 C) 40 D) 60 E) 80

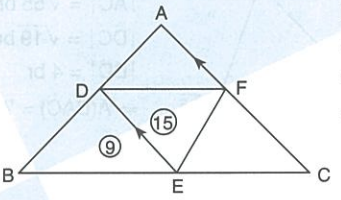
14.



$[BA] \perp [AC]$
$[AD] \perp [DB]$
$|AB| = 5$ br
$|AC| = 6$ br
$|BD| = 3$ br
$\Rightarrow A(ADC) = ?$

A) $\frac{24}{5}$ B) $\frac{48}{5}$ C) 12 D) 15 E) 18

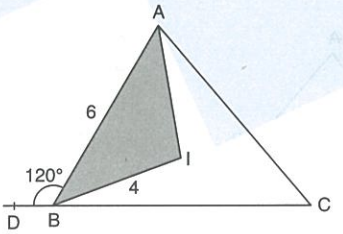
15.



$[DE] // [AC]$
$A(DEF) = 15$ br^2
$A(BDE) = 9$ br^2
$\Rightarrow A(ABC) = ?$

A) 40 B) 48 C) 54 D) 55 E) 64

16.



I iç teget çemberin merkezi

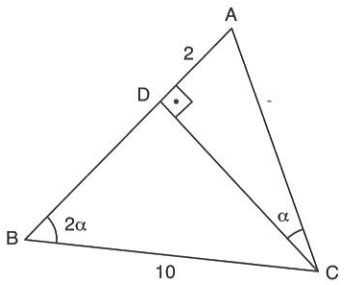
I, central point of the incircle

$m(\widehat{ABD}) = 120°$
$|AB| = 6$ br
$|BI| = 4$ br
$\Rightarrow A(AIB) = ?$

A) $6\sqrt{3}$ B) $6\sqrt{2}$ C) $4\sqrt{3}$ D) 6 E) 4

PUZA YAYINLARI

1.



$[CD] \perp [AB]$

$2m(\widehat{ACD}) = m(\widehat{ABC})$

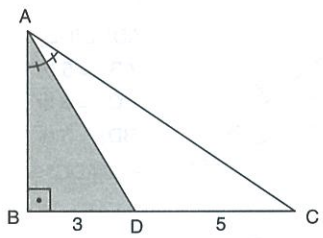
$|AD| = 2$ br

$|BC| = 10$ br

$\Rightarrow A(ABC) = ?$

A) 10 B) 20 C)30 D) 40 E) 60

2.



$[AB] \perp [BC]$

$m(\widehat{BAD}) = m(\widehat{DAC})$

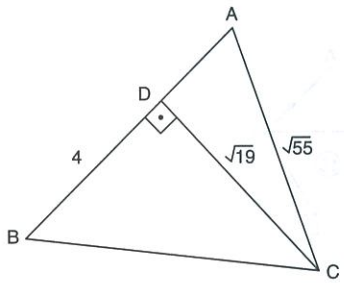
$|BD| = 3$ br

$|DC| = 5$ br

$\Rightarrow A(BAD) = ?$

A) $\frac{15}{2}$ B) 9 C) 12 D) 24 E) 48

3.



$[CD] \perp [AB]$

$|AC| = \sqrt{55}$ br

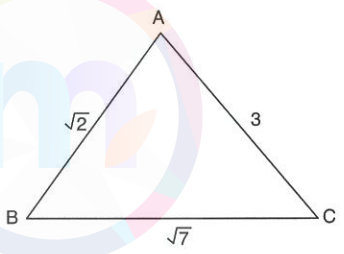
$|DC| = \sqrt{19}$ br

$|BD| = 4$ br

$\Rightarrow A(BAC) = ?$

A) $\frac{5}{3}\sqrt{19}$ B) $2\sqrt{19}$ C) $5\sqrt{19}$ D) $10\sqrt{19}$ E) 138

4.



$|AB| = \sqrt{2}$ br

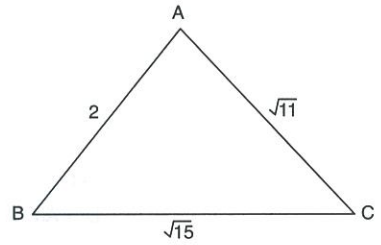
$|AC| = 3$ br

$|BC| = \sqrt{7}$ br

$\Rightarrow A(ABC) = ?$

A) $\frac{3\sqrt{2}}{2}$ B) $\frac{3\sqrt{7}}{2}$ C) $\frac{\sqrt{14}}{2}$ D) $3\sqrt{7}$ E) $7\sqrt{2}$

5.



$|AC| = \sqrt{11}$ br

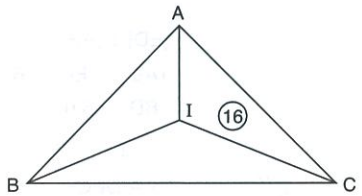
$|AB| = 2$ br

$|BC| = \sqrt{15}$ br

$\Rightarrow A(ABC) = ?$

A) $2\sqrt{15}$ B) $2\sqrt{11}$ C) $\frac{\sqrt{165}}{2}$ D) $\sqrt{15}$ E) $\sqrt{11}$

6.



I iç teget çemberin merkezi

I, central point of the incircle

$A(AIC) = 16$ br^2

$|AC| = 4k$

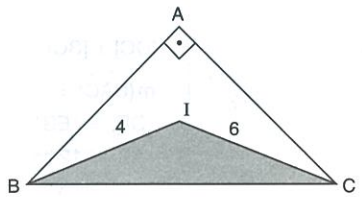
$|BC| = 5k$

$|AB| = 6k$

$\Rightarrow A(ABC) = ?$

A) 32 B) 48 C) 60 D) 64 E) 76

7.



I iç teget çemberin merkezi

I, central point of the incircle

$[BA] \perp [AC]$

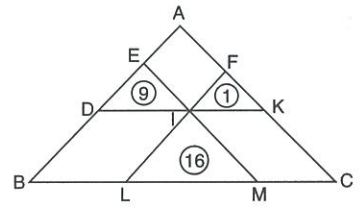
$|BI| = 4$ br

$|IC| = 6$ br

$\Rightarrow A(BIC) = ?$

A) $12\sqrt{3}$ B) 12 C) $6\sqrt{3}$ D) $6\sqrt{2}$ E) 6

8.



$[FL] // [AB]$

$[EM] // [AC]$

$[DK] // [BC]$

$A(FIK) = 1$ br^2

$A(DEI) = 9$ br^2

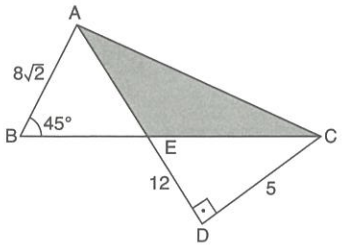
$A(ILM) = 16$ br^2

$\Rightarrow A(ABC) = ?$

A) 36 B) 49 C) 64 D) 81 E) 100

PUZA YAYINLARI

9.



$[AD] \perp [DC]$

$m(\widehat{ABC}) = 45°$

$|AB| = 8\sqrt{2}$ br

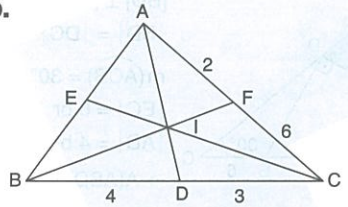
$|DC| = 5$ br

$|ED| = 12$ br

$\Rightarrow A(AEC) = ?$

A) $20\sqrt{2}$ B) 42 C) $42\sqrt{2}$ D) 52 E) $52\sqrt{2}$

10.



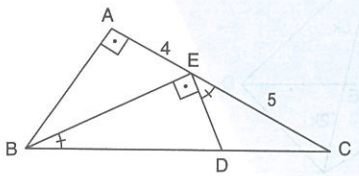
$2|AF| = |BD| = 4$ br

$2|DC| = |FC| = 6$ br

$\Rightarrow \dfrac{A(EAI)}{A(EBI)} = ?$

A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) 1 D) 2 E) 4

11.



$[BA] \perp [AC]$

$[BE] \perp [ED]$

$m(\widehat{EBC}) = m(\widehat{DEC})$

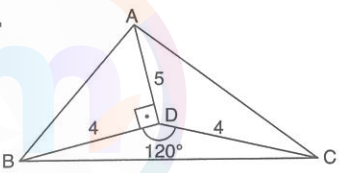
$|AE| = 4$ br

$|EC| = 5$ br

$\Rightarrow A(ABC) = ?$

A) 10 B) 20 C) 40 D) 48 E) 54

12.



$[AD] \perp [BD]$

$m(\widehat{BDC}) = 120°$

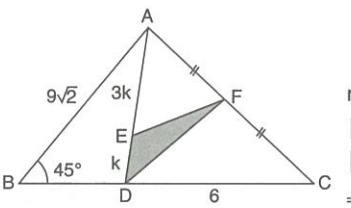
$|BD| = |DC| = 4$ br

$|AD| = 5$ br

$\Rightarrow A(ABC) = ?$

A) $20 + 4\sqrt{3}$ B) $15 + 4\sqrt{3}$ C) $10 + 9\sqrt{3}$ D) $10 + 6\sqrt{3}$ E) 23

13.



$|AF| = |FC|$

$|AE| = 3|ED|$

$m(\widehat{ABC}) = 45°$

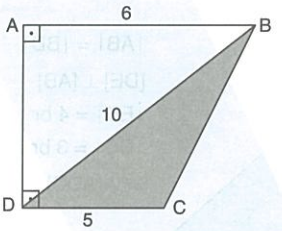
$|AB| = 9\sqrt{2}$ br

$|DC| = 6$ br

$\Rightarrow A(EFD) = ?$

A) 3 B) $\frac{27}{8}$ C) $\frac{27}{2}$ D) 18 E) 27

14.



$[BA] \perp [AD]$

$[AD] \perp [DC]$

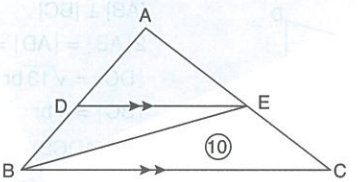
$|AB| = 6$ br

$2|DC| = |DB| = 10$ br

$\Rightarrow A(BDC) = ?$

A) 40 B) 30 C) 25 D) 20 E) 10

15.



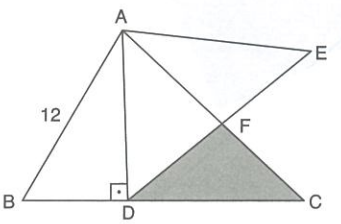
$[DE] \;//\; [BC]$

$|AD| = 2|BD|$

$\Rightarrow A(ADE) = ?$

A) 5 B) $\frac{20}{3}$ C) 10 D) 12 E) $\frac{40}{3}$

16.



ABC, ADE eşkenar üçgenler

ABC and ADE are equilateral triangles

$[AD] \perp [BC]$

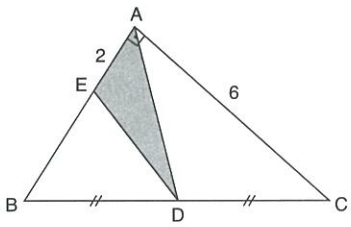
$|AB| = 12$ br

$\Rightarrow A(DFC) = ?$

A) $18\sqrt{3}$ B) 18 C) $9\sqrt{3}$ D) 9 E) $\frac{9\sqrt{3}}{2}$

PUZA YAYINLARI

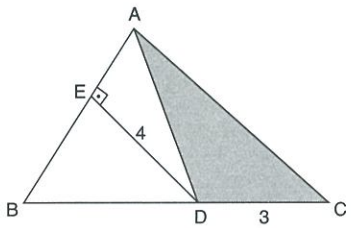
1.



$[BA] \perp [AC]$
$|BD| = |DC|$
$|AE| = 2$ br
$|AC| = 6$ br
$\Rightarrow A(AED) = ?$

A) 3 B) 6 C) 9 D) 12 E) 18

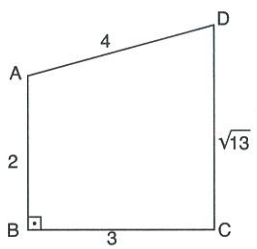
2.



$|AB| = |BD|$
$[DE] \perp [AB]$
$|ED| = 4$ br
$|DC| = 3$ br
$\Rightarrow A(ADC) = ?$

A) 3 B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) 6 E) $6\sqrt{3}$

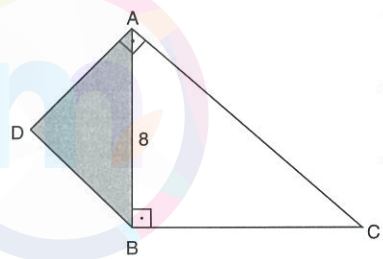
3.



$[AB] \perp [BC]$
$2|AB| = |AD| = 4$ br
$|DC| = \sqrt{13}$ br
$|BC| = 3$ br
$\Rightarrow A(ADCB) = ?$

A) $\frac{9}{2}$ B) 9 C) $4+2\sqrt{3}$ D) $8\sqrt{3}$ E) $16\sqrt{3}$

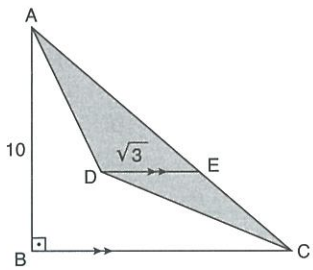
4.



$[AD] \perp [AC]$
$[AB] \perp [BC]$
$3|AD| = |AC|$
$|AB| = 8$ br
$\Rightarrow A(ADB) = ?$

A) $\frac{32}{3}$ B) $\frac{64}{3}$ C) 24 D) 32 E) 64

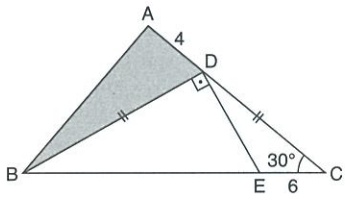
5.



$[AB] \perp [BC]$
$[DE] \,//\, [BC]$
$|AB| = 10$ br
$|DE| = \sqrt{3}$ br
$\Rightarrow A(ADC) = ?$

A) 30 B) $20\sqrt{3}$ C) 15 D) $10\sqrt{3}$ E) $5\sqrt{3}$

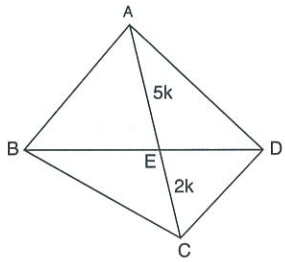
6.



$[BD] \perp [DE]$
$|BD| = |DC|$
$m(\widehat{ACB}) = 30°$
$|EC| = 6$ br
$|AD| = 4$ br
$\Rightarrow A(ABD) = ?$

A) 36 B) $12\sqrt{3}$ C) 18 D) 9 E) $6\sqrt{3}$

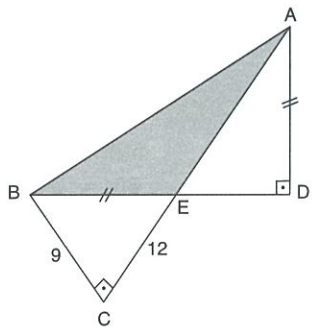
7.



$2|AE| = 5|EC|$
$\Rightarrow \frac{A(ABD)}{A(ABCD)} = ?$

A) $\frac{5}{2}$ B) $\frac{3}{2}$ C) $\frac{5}{7}$ D) $\frac{3}{5}$ E) $\frac{2}{5}$

8.

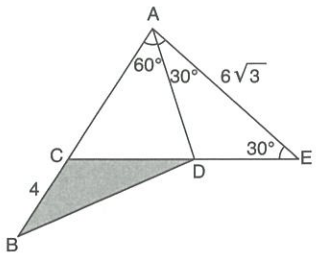


$[AD] \perp [BD]$
$[BC] \perp [CA]$
$|BE| = |AD|$
$|BC| = 9$ br
$|CE| = 12$ br
$\Rightarrow A(ABE) = ?$

A) $\frac{225}{2}$ B) $\frac{135}{2}$ C) $\frac{125}{2}$ D) 54 E) 48

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

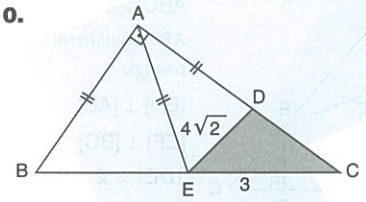
9.



$m(\widehat{DAE}) = 30°$
$m(\widehat{CEA}) = 30°$
$m(\widehat{BAD}) = 60°$
$|BC| = 4$ br
$|AE| = 6\sqrt{3}$ br
$\Rightarrow A(BCD) = ?$

A) $6\sqrt{3}$ B) 9 C) 12 D) $12\sqrt{3}$ E) 24

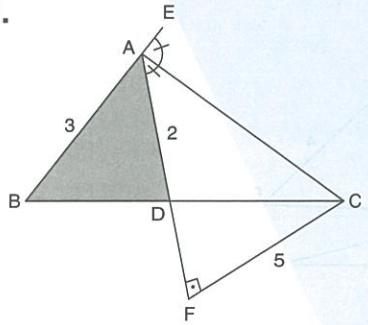
10.



$[BA] \perp [AC]$
$|AB| = |AE| = |AD|$
$|ED| = 4\sqrt{2}$ br
$|EC| = 3$ br
$\Rightarrow A(EDC) = ?$

A) $12\sqrt{2}$ B) 12 C) $6\sqrt{2}$ D) 6 E) $3\sqrt{2}$

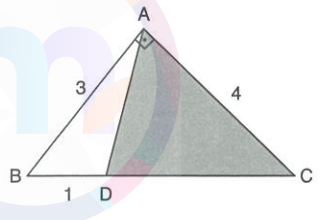
11.



$[AF] \perp [FC]$
$m(\widehat{EAC}) = m(\widehat{FAC})$
$|AD| = 2$ br
$|AB| = 3$ br
$|FC| = 5$ br
$\Rightarrow A(ABD) = ?$

A) $\frac{5}{4}$ B) $\frac{5}{2}$ C) 5 D) $\frac{15}{2}$ E) 10

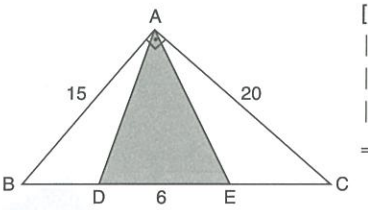
12.



$[BA] \perp [AC]$
$|AB| = 3$ br
$|AC| = 4$ br
$|BD| = 1$ br
$\Rightarrow A(ADC) = ?$

A) $\frac{6}{5}$ B) 2 C) $\frac{12}{5}$ D) $\frac{24}{5}$ E) 8

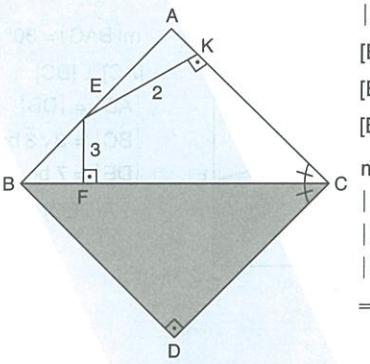
13.



$[BA] \perp [AC]$
$|AB| = 15$ br
$|AC| = 20$ br
$|DE| = 6$ br
$\Rightarrow A(DAE) = ?$

A)75 B) 45 C) 36 D) 30 E) 18

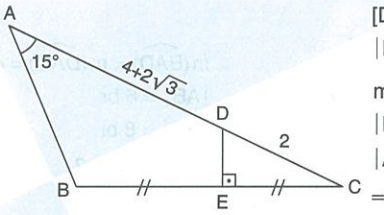
14.



$|AC| = |BC|$
$[EK] \perp [AC]$
$[EF] \perp [BC]$
$[BD] \perp [DC]$
$m(\widehat{ACB}) = m(\widehat{BCD})$
$|EK| = 2$ br
$|EF| = 3$ br
$|BC| = 13$ br
$\Rightarrow A(BDC) = ?$

A) $\frac{65}{2}$ B) 30 C) 60 D) 65 E) 75

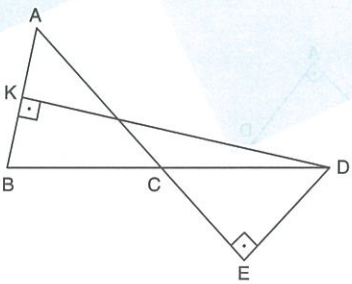
15.



$[DE] \perp [BC]$
$|BE| = |EC|$
$m(\widehat{BAC}) = 15°$
$|DC| = 2$ br
$|AD| = 4 + 2\sqrt{3}$ br
$\Rightarrow A(ABC) = ?$

A) $2+\sqrt{3}$ B) $2+2\sqrt{3}$ C) $4+2\sqrt{3}$
D) $6+2\sqrt{3}$ E) $8+4\sqrt{3}$

16.

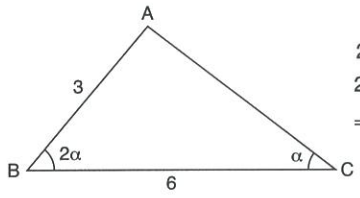


$|AB| = |AC| = 10$ br
$|KD| = 8$ br
$|DE| = 3$ br
$[DK] \perp [AB]$
$[DE] \perp [EA]$
$\Rightarrow A(ABC) = ?$

A) 25 B) 30 C) 40 D) 50 E) 55

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

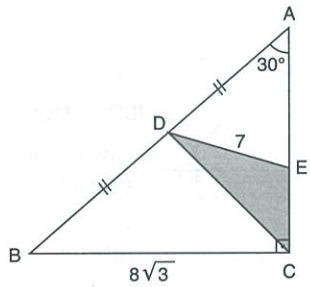
1.



$2m(\widehat{ACB}) = m(\widehat{ABC})$
$2|AB| = |BC| = 6$ br
$\Rightarrow A(ABC) = ?$

A) 3 B) $\frac{9\sqrt{3}}{2}$ C) $6\sqrt{3}$ D) 9 E) $9\sqrt{3}$

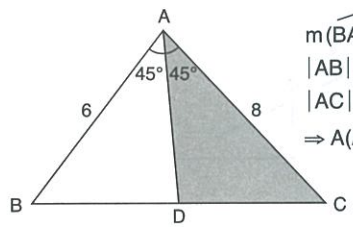
2.



$m(\widehat{BAC}) = 30°$
$[AC] \perp [BC]$
$|AD| = |DB|$
$|BC| = 8\sqrt{3}$ br
$|DE| = 7$ br
$\Rightarrow A(DEC) = ?$

A) 11 B) $11\sqrt{3}$ C) $12\sqrt{3}$ D) $22\sqrt{3}$ E) $24\sqrt{3}$

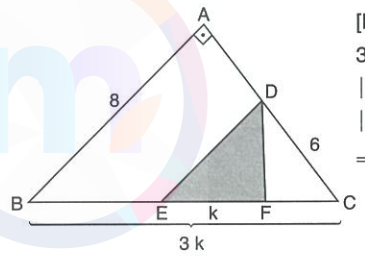
3.



$m(\widehat{BAD}) = m(\widehat{DAC}) = 45°$
$|AB| = 6$ br
$|AC| = 8$ br
$\Rightarrow A(ADC) = ?$

A) 24 B) $\frac{24}{7}$ C) $\frac{72}{7}$ D) $\frac{96}{7}$ E) 48

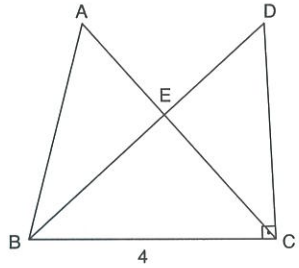
4.



$[BA] \perp [AC]$
$3|EF| = |BC|$
$|AB| = 8$ br
$|DC| = 6$ br
$\Rightarrow A(DEF) = ?$

A) 24 B) 16 C) 12 D) 8 E) 6

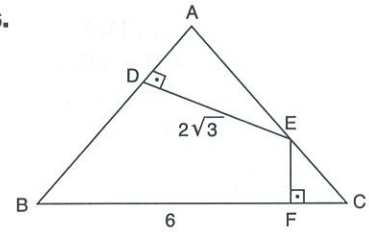
5.



ABC eşkenar üçgen
ABC equilateral triangle
$[DC] \perp [CB]$
$A(AEB) = A(EDC)$
$|BC| = 4$ br
$\Rightarrow |DC| = ?$

A) $2\sqrt{3}$ B) 5 C) $2\sqrt{7}$ D) $4\sqrt{3}$ E) 8

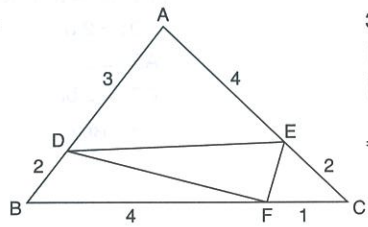
6.



ABC eşkenar üçgen
ABC equilateral triangle
$[ED] \perp [AB]$
$[EF] \perp [BC]$
$|DE| = 2\sqrt{3}$ br
$|BF| = 6$ br
$\Rightarrow A(ABC) = ?$

A) 8 B) $8\sqrt{3}$ C) $12\sqrt{3}$ D) $16\sqrt{3}$ E) 24

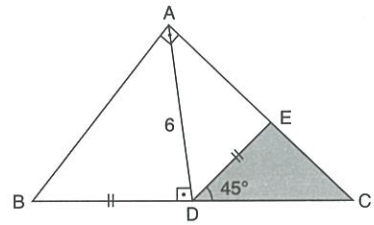
7.



$3|FC| = |AD| = 3$ br
$|AE| = |BF| = 4$ br
$|EC| = |BD| = 2$ br
$\Rightarrow \frac{A(DEF)}{A(ABC)} = ?$

A) $\frac{3}{12}$ B) $\frac{5}{12}$ C) $\frac{8}{75}$ D) $\frac{16}{75}$ E) $\frac{28}{75}$

8.



$[BA] \perp [AC]$
$[AD] \perp [BC]$
$m(\widehat{EDC}) = 45°$
$|BD| = |DE|$
$|AD| = 6$ br
$\Rightarrow A(EDC) = ?$

A) 3 B) 6 C) $6\sqrt{2}$ D) $9\sqrt{2}$ E) 36

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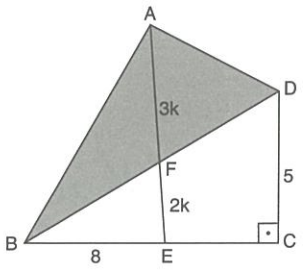
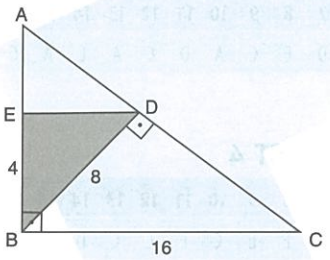
9.



$[DC] \perp [BC]$
$2|AF| = 3|FE|$
$|BE| = 8$ br
$|DC| = 5$ br
$\Rightarrow A(ABD) = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

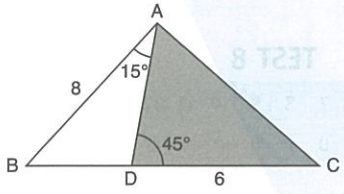
10.



$[AB] \perp [BC]$
$[BD] \perp [AC]$
$|BD| = 8$ br
$|EB| = 4$ br
$|BC| = 16$ br
$\Rightarrow A(EDB) = ?$

A) 4 B) 8 C) $8\sqrt{3}$ D) 16 E) $16\sqrt{3}$

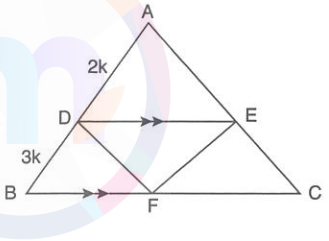
11.



$m(\widehat{BAD}) = 15°$
$m(\widehat{ADC}) = 45°$
$|AB| = 8$ br
$|DC| = 6$ br
$\Rightarrow A(ADC) = ?$

A) $32\sqrt{2}$ B) 32 C) $16\sqrt{2}$ D) 12 E) 8

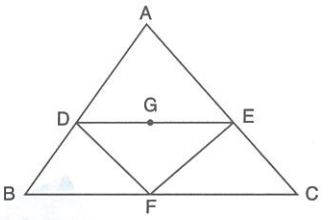
12.



$[DE] // [BC]$
$A(DEF) = 30$ br^2
$3|AD| = 2|DB|$
$\Rightarrow A(ABC) = ?$

A) 50 B) 60 C) 75 D) 90 E) 125

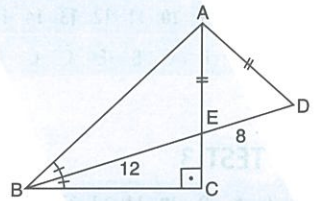
13.



G, ABC üçgeninin ağırlık merkezi
G, center of gravity ABC triangle's
$[DE] // [BC]$
$A(ABC) = 90$ br^2
$\Rightarrow A(DEF) = ?$

A) 10 B) 20 C) 30 D) 45 E) 60

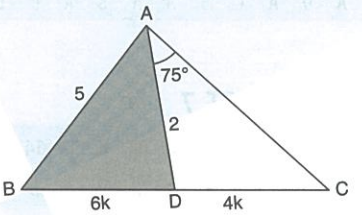
14.



$[AC] \perp [BC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AE| = |AD|$
$|BE| = 12$ br
$|ED| = 8$ br
$\Rightarrow A(ABD) = ?$

A) 24 B) 40 C) 48 D) 60 E) 80

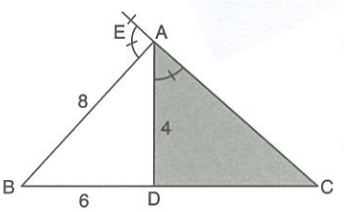
15.



$m(\widehat{DAC}) = 75°$
$|AB| = 5$ br
$|AD| = 2$ br
$|BD| = 6k$
$|DC| = 4k$
$\Rightarrow A(ABD) = ?$

A) $\frac{5}{4}$ B) $\frac{5}{3}$ C) $\frac{5}{2}$ D) $\frac{5\sqrt{3}}{3}$ E) $\frac{5\sqrt{3}}{2}$

16.



$m(\widehat{DAC}) = m(\widehat{BAE})$
$|AB| = 2|AD| = 8$ br
$|BD| = 6$ br
$\Rightarrow A(ADC) = ?$

A) $5\sqrt{3}$ B) $3\sqrt{15}$ C) 12 D) 16 E) 24

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ÜÇGENDE ALAN AREAS OF TRIANGLES

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	A	D	E	C	C	A	B	C	B	E	C	C	A	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	D	D	D	C	D	E	C	A	D	C	A	C	A	C

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	D	C	A	E	B	B	E	E	A	D	D	E	C	D	C

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	A	A	D	C	B	C	E	E	C	E	C	C	D	D	D

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	C	D	A	D	A	C	B	A	A	B	A	B	E	C

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	B	D	C	D	C	D	C	A	C	D	B	D	D	B	D

TEST 7

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	E	E	B	D	D	E	E	C	A	A	C	C	B	E	D

TEST 8

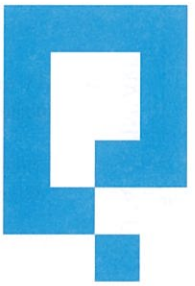
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	C	C	E	C	D	C	D	A	E	B	B	D	E	E

TEST 9

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	B	A	E	C	C	A	A	D	B	D	C	B	D	A

TEST 10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	D	D	A	D	D	D	B	B	D	E	B	E	C	B



ÇOKGENLER
POLYGONS

ÖZELLİK|Property 1

- n kenarlı bir konveks çokgen için
  - * Konveks bir çokgenin çizilebilmesi için en az (2n – 3) tane elemanı bilinmelidir. Bunların en az (n – 2) tanesi uzunluk, (n – 1) tanesi açı olmalıdır.
  - * İç açıları toplamı $(n-2)\cdot 180^\circ$ dir.
  - * Dış açıları toplamı 360° dir.
  - * Bir köşeden çizilen köşegen sayısı (n – 3)'tür.
  - * Bütün köşegenlerin sayısı $\frac{n(n-3)}{2}$'tür.
  - * Bir köşeden çizilen tüm köşegenler, çokgeni (n – 2) tane üçgene ayırır.
- *For a polygon with n edges*
- * *In order to be drawn a convex polygon, at least (2n–3) elements must be known. At least (n-2) of them must be edge lengths, and (n-1) of them must be angle measurements.*
- * *The sum of the interior angles is* $(n-2)\cdot 180^\circ$
- * *The sum of exterior angles is* 360°
- * *The number of diagonals drawn from a vertex is (n–3)*
- * *The number of all the diagonals is* $\frac{n(n-3)}{2}$
- * *The diagonals that are drawn from a vertex to each other corners separate the polygon into (n-2) triangles*

1. İç açıları toplamı 720° olan konveks bir çokgenin kenar sayısı nedir?

What number is the edges of a convex polygon with the sum of interior angles of 720?

6

2. Bir köşeden çizilen tüm köşegen sayısı 7 olan konveks bir çokgenin iç açıları toplamı ve tüm köşegenlerinin sayısı nedir?

what number is diagonals and sum of interior angles a convex polygon which the number of diagonals drown from a vertex is 7?

1440, 35

3. İç açıları toplamı dış açıları toplamının 3 katı olan konveks bir çokgenin tüm köşegen sayısı nedir?

What number is the vertex of a convex polygon which the sum of interior angles is 3 times of the sum of exterior angles?

20

4. Bir konveks çokgen 13 elemanı ile belirlenebiliyor. Bu konveks çokgenin bir köşesinden çizilen tüm köşegenler çokgeni kaç tane üçgene ayırır?

A convex polygon can determine by 13 element. How many triangles are produced by drawing diagonals from a vertex of this convex polygon?

6

5. 11 elemanıyla belirlenebilen bir çokgenin bir köşesinden çizilen bütün köşegenlerin sayısı nedir?

What is the diagonals of a polygon which can be determined by 11 element, drawn from a vertex?

4

6. Dış açıları toplamının iç açıları toplamına oranı $\frac{2}{3}$ olan konveks bir çokgenin kenar sayısı nedir?

What number is the edges of a convex polygon which the sum of exterior angles to the sum of interior angles ratio is $\frac{2}{3}$*?*

5

7. Üç iç açısı 120°, 150°, 70° ve diğer iç açıları birbirine eşit ve 140° olan konveks çokgen kaç kenarlıdır?

What number is the edges of a convex polygon which three interior angles are 120°, 150°, 70° and the other angles are equal to each other and 140°?

7

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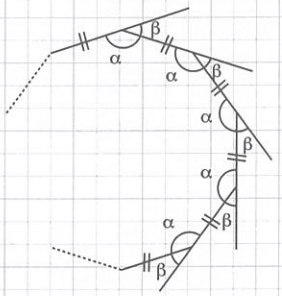
PUZA YAYINLARI

ÖZELLİK|Property 2



$$\alpha = \frac{(n-2)\cdot 180°}{n}$$

$$\beta = \frac{360°}{n}$$

$$\alpha + \beta = 180°$$

1. Bir dış açısı 30° olan düzgün bir çokgenin kenar sayısı nedir?

What number is the edges of a regular polygon have with an exterior angles of 30°?

12

2. Bir iç açısı 135° olan düzgün bir çokgenin tüm köşegen sayısı nedir?

what number is the sum of diagonals of a regular polygon with a intensive angle of 135°?

20

3. Bir iç açısı bir dış açısının 5 katı olan düzgün bir çokgenin iç açıları toplamı kaçtır?

What number is the sum of interior angles of a regular polygon which a interior angle is 5 time of an exterior angle?

1800

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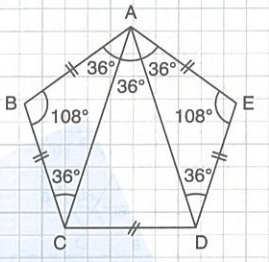
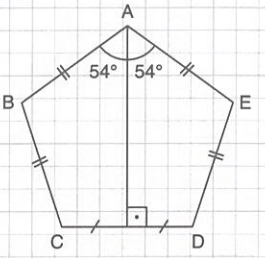
PUZA YAYINLARI

PUZA YAYINLARI

ÖZELLİK|Property 3

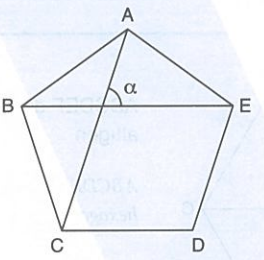




Düzgün beşgenin bir iç açısı 108°, dış açısı 72° dir.

One interior angle is 108° and one exterior angle is 72° of a regular pentagon.

1.



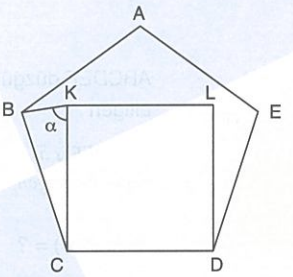
ABCDE düzgün beşgen.

ABCDE is a regular pentagon.

$\Rightarrow \alpha = ?$

72

2.



ABCDE düzgün beşgen, KLDC kare

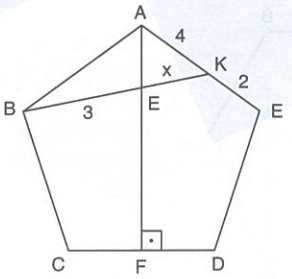
ABCDE is a regular pentagon.

KLDC square

$\Rightarrow \alpha = ?$

81

3.



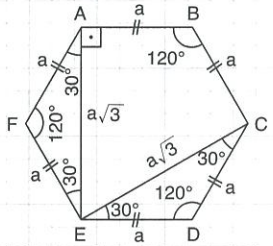
ABCDE düzgün beşgen

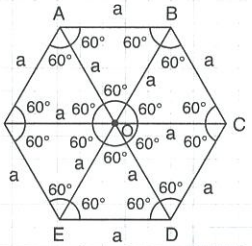
ABCDE is a regular pentagon.

$\Rightarrow x = ?$

2

ÖZELLİK|Property 4





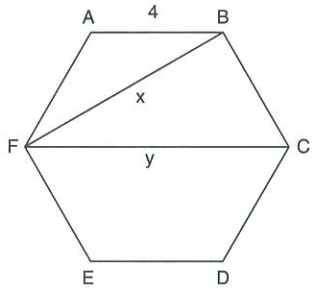
Düzgün bir altıgenin iç açısı 120°, dış açısı 60°'dir.

One interior angle is 120° and one exterior angle is 60° of a regular hexagon.

$$A(OED) = \frac{a^2\sqrt{3}}{4}$$

$$A(ABCDEF) = 6 \cdot \frac{a^2\sqrt{3}}{4}$$

1.



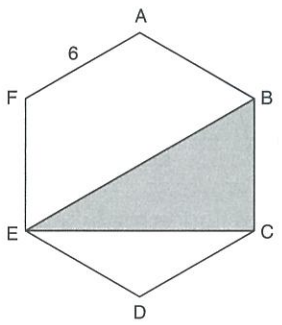
ABCDEF düzgün altıgen

ABCDEF is a regular hexagon

⇒ x = ?
⇒ y = ?

$4\sqrt{3}, 8$

2.



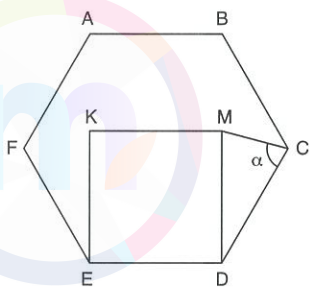
ABCDEF düzgün altıgen

ABCDEF is a regular hexagon

⇒ A(EBC) = ?

$18\sqrt{3}$

3.



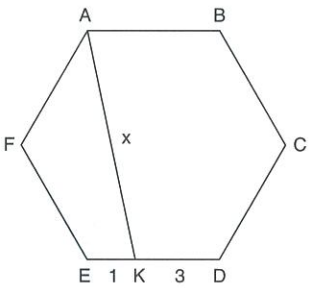
ABCDEF düzgün altıgen, KMDE kare

ABCDEF regular hexagon, KMDE square

⇒ α = ?

75

4.



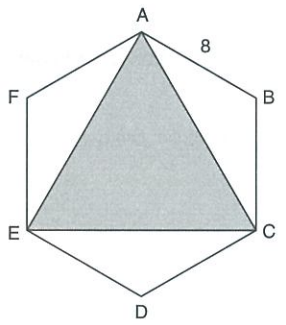
ABCDEF düzgün altıgen

ABCDEF regular hexagon

⇒ |AK| = x = ?

7

5.



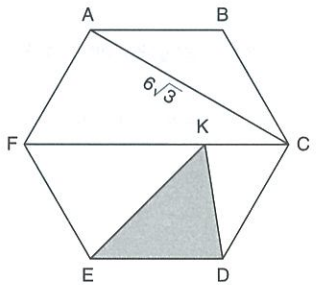
ABCDEF düzgün altıgen

ABCDEF is a regular hexagon

⇒ A(AEC) = ?

$48\sqrt{3}$

6.



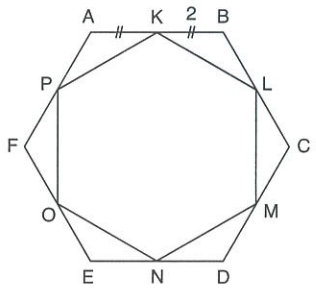
ABCDEF düzgün altıgen

ABCDEF regular hexagon

⇒ A(EKD) = ?

$9\sqrt{3}$

7.



ABCDEF ve KLMNOP düzgün altıgen

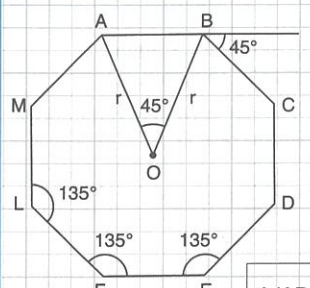
ABCDEF and KLMNOP regular hexagon

⇒ A(KLMNOP) = ?

$18\sqrt{3}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 5

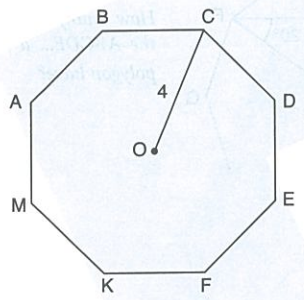


O merkezli düzgün sekizgen

A regular octagon with a center O.

$$A(ABCDEFKM) = 8\left(\frac{1}{2}\cdot r\cdot r\sin 45°\right)$$

1.



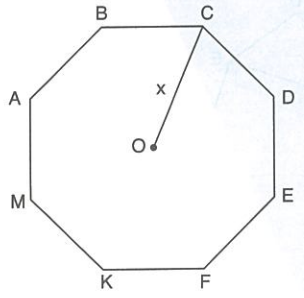
ABCDEFKM düzgün sekizgen

ABCDEFKM regular octagon

⇒ A(ABCDEFKM) = ?

$32\sqrt{2}$

2.



ABCDEFKM düzgün sekizgen

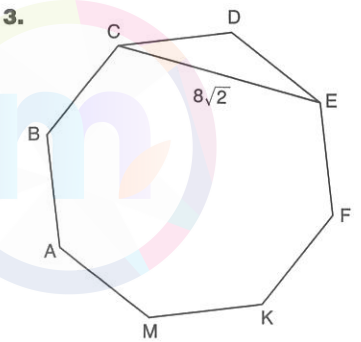
ABCDEFKM regular octagon

$A(ABCDEFKM) = 72\sqrt{2}$

⇒ x = ?

6

3.



ABCDEFKM düzgün sekizgen

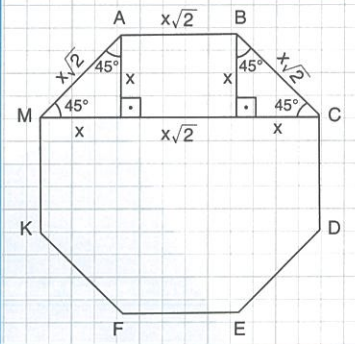
ABCDEFKM regular octagon

⇒ A(ABCDEFKM) = ?

$128\sqrt{2}$

PUZA YAYINLARI

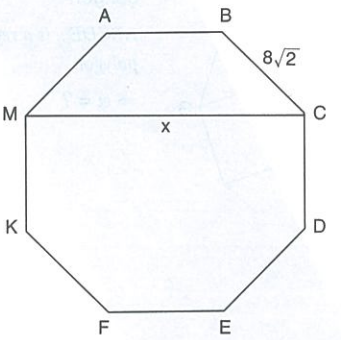
ÖZELLİK|Property 6



ABCDEFKM düzgün sekizgen

ABCDEFKM regular octagon

1.



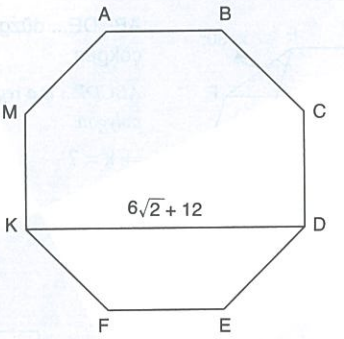
ABCDEFKM düzgün sekizgen

ABCDEFKM regular octagon

⇒ x = ?

$16+8\sqrt{2}$

2.



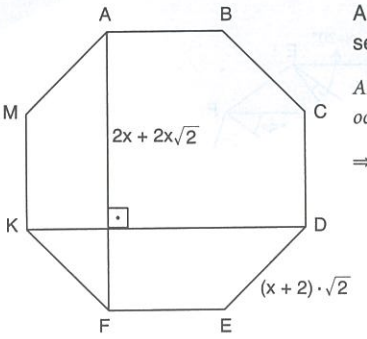
ABCDEFKM düzgün sekizgen

ABCDEFKM regular octagon

⇒ Ç(ABCD...) = ?

$48\sqrt{2}$

3.



ABCDEFKM düzgün sekizgen

ABCDEFKM regular octagon

⇒ x = ?

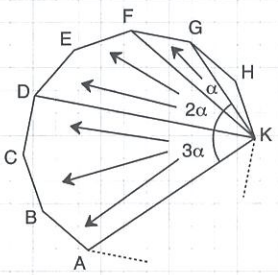
2

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

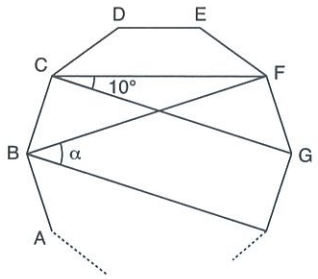
ÖZELLİK|Property 7



ABCD... düzgün çokgen

ABCDE... is a regular polygon

1.



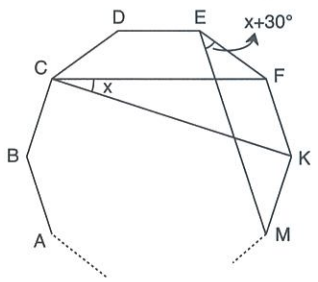
ABCDE... düzgün çokgen

ABCDE... is a regular polygon

⇒ α = ?

20

2.



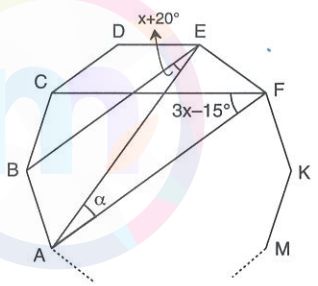
ABCDE... düzgün çokgen

ABCDE... is a regular polygon

⇒ x = ?

30

3.



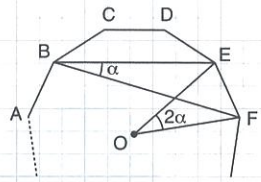
ABCDE... düzgün çokgen

ABCDE... is a regular polygon

⇒ α = ?

75

ÖZELLİK|Property 8

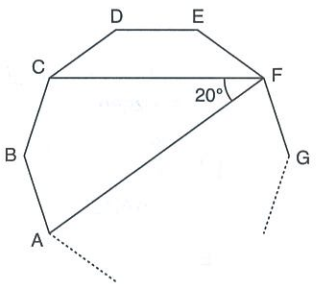


O merkezli n kenarlı düzgün çokgen

A regular polygon having n edges, with a center O

$$\Rightarrow \frac{2\cdot\alpha}{360^\circ} = \frac{1}{n} \qquad \boxed{\Rightarrow n = \frac{180^\circ}{\alpha}}$$

1.

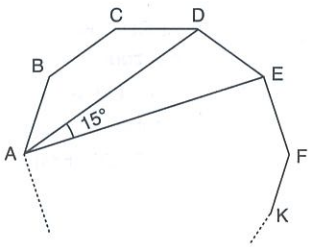


ABCD... düzgün çokgeni kaç kenarlıdır?

How many edges does the ABCDE... a regular polygon have?

18

2.

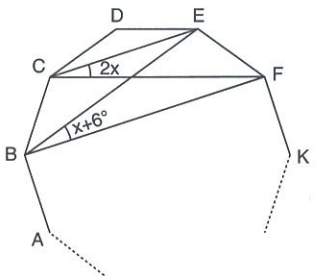


ABCD... düzgün çokgeni kaç kenarlıdır?

How many edges does the ABCDE... a regular polygon have?

12

3.



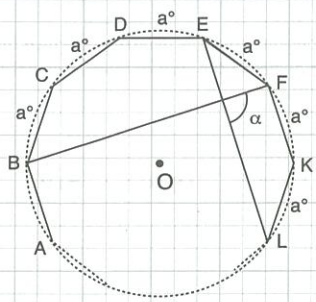
ABCD... düzgün çokgeni kaç kenarlıdır?

How many edges does the ABCDE... a regular polygon have?

15

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 9



O merkezli n kenarlı düzgün çokgen

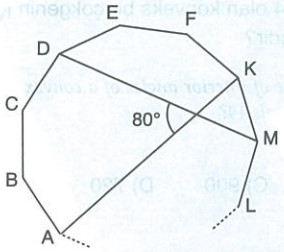
A regular polygon having n edges, with a center O

$$\frac{3a + 2a}{2} = \alpha$$

$$a = \frac{2 \cdot \alpha}{5}$$

$$\frac{\frac{2\alpha}{5}}{360^\circ} = \frac{1}{n}$$

1.

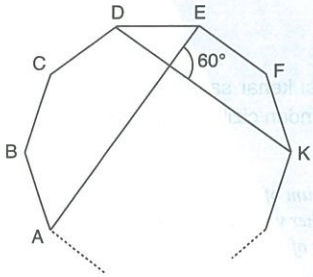


ABCD... düzgün çokgeni kaç kenarlıdır?

How many edges does the ABCDE.. a regular polygon have?

9

2.

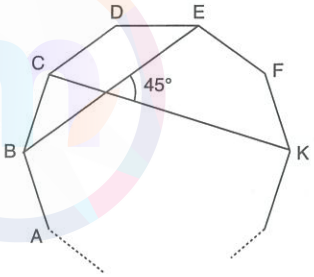


ABCD... düzgün çokgeni kaç kenarlıdır?

How many edges does the ABCDE... a regular polygon have?

15

3.

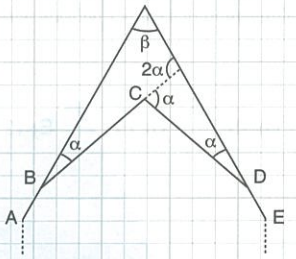


ABCD... düzgün çokgeni kaç kenarlıdır?

How many edges does the ABCDE... a regular polygon have?

12

ÖZELLİK|Property 10



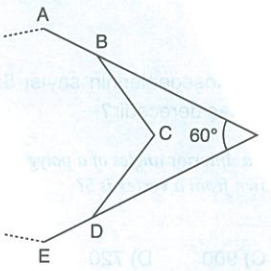
ABCDE... n kenarlı düzgün çokgen

ABCDE... is a regular polygon with n edges

$3\alpha + \beta = 180^\circ$

$$\frac{360^\circ}{n} = \alpha$$

1.



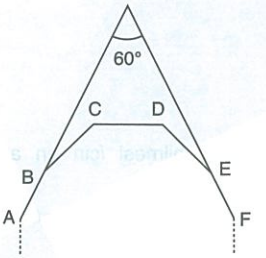
ABCDE... n kenarlı düzgün çokgen

ABCDE... is a regular polygon with n edges

$\Rightarrow n = ?$

9

2.



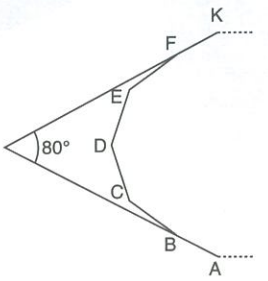
ABCDE... n kenarlı düzgün çokgen

ABCDE... is a regular polygon with n edges

$\Rightarrow n = ?$

12

3.



ABCDE... n kenarlı düzgün çokgen

ABCDE... is a regular polygon with n edges

$\Rightarrow n = ?$

18

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1. Kenar sayısı 7 olan konverks bir çokgenin tüm köşegenlerinin sayısı nedir?

What number is the sum of diagonals of a convex polygon with the edge number of 7?

A) 28 B) 18 C) 15 D) 14 E) 12

2. Bir köşesinden çizilen tüm köşegenlerinin sayısı 5 olan çokgenin iç açıları toplamı kaç derecedir?

What is the sum of degree of a interior angles of a polygon which the number of diagonals drawn from a vertex is 5?

A) 1440 B) 1080 C) 900 D) 720 E) 540

3. Dış bükey bir yedigenin çizilebilmesi için en az kaç elemanı bilinmelidir?

How many elements should be determined at least, in order to be drawn a convex heptagon?

A) 21 B) 19 C) 17 D) 14 E) 11

4. Bir köşesinden çizilen tüm köşegenlerle dış bükey dokuzgen kaç üçgensel bölgeye ayrılır?

How many triangular sectors is a convex nonagon by diagonals drawn from a vertex to divided into?

A) 9 B) 8 C) 7 D) 6 E) 5

5. Dış açıların toplamının iç açılar toplamına oranı $\frac{1}{4}$ olan çokgenin çizilebilmesi için kaç elemanı bilinmelidir?

How many elements of a polygon should be determined which the ratio of the sum of exterior angles to the sum of interior angles is 1/4?

A) 21 B) 17 C) 11 D) 10 E) 9

6. Tüm köşegen sayısı 14 olan konveks bir çokgenin iç açıları toplamı kaç derecedir?

What is the sum of degree of interior angles of a convex polygon with the number of diagonals 14?

A) 1440 B) 1080 C) 900 D) 720 E) 540

7. Tüm köşegen sayısı kenar sayısının 3 katı olan konveks çokgenin bir köşesinden çizilen tüm köşegenlerinin sayısı nedir?

What number is the sum of diagonals of a convex polygon drawn from a vertex each other vertex, which the number of diagonals is 3 times of the number of edges?

A) 6 B) 5 C) 4 D) 3 E) 2

8. Dış bükey onikigenin en az kaç iç açısı geniş açı olabilir?

How many of angles of a convex dodecagon can be obtuse angle at least?

A) 10 B) 9 C) 8 D) 7 E) 6

PUZA YAYINLARI

9. Bir iç açısı bir dış açısının 8 katı olan düzgün çokgen kaç kenarlıdır?

How many angles does a regular polygon have, that one of its interior angle is 8 time of an exterior angle?

A) 10 B) 12 C) 16 D) 18 E) 20

10. Bir dış bükey çokgenin iç açılarının üç tanesi 150°, 130° ve 60° dir.
Diğer iç açıları ölçüleri eşit ve 140° olduğuna göre bu çokgen kaç kenarlıdır?

What number is the angles of a polygon which the interior angles of a convex polygon is 150°, 130°, 60°.

The other interior angles are equal and 140°?

A) 9 B) 8 C) 7 D) 6 E) 5

11. Bir iç açısı 140° olan düzgün bir çokgen kaç kenarlıdır?

What number is the edges of a regular polygon with the a interior angles of 140°?

A) 5 B) 6 C) 7 D) 8 E) 9

12. Bir dış açısının ölçüsü 30° olan düzgün çokgen kaç kenarlıdır?

What number is the edge of a regular polygon with an exterior angles of 30°?

A) 15 B) 12 C) 10 D) 8 E) 6

13. Bir iç açısı bir dış açısının 2 katından 30° eksik olan düzgün çokgenin bir iç açısı kaç derecedir?

What is the degree of a interior angles of a regular polygon which, one of interior angle is 30° lack of 2 times of an exterior angles?

A) 70 B) 80 C) 90 D) 100 E) 110

14. Bir iç açısı bir dış açısının 6 katından 40° fazla olan düzgün çokgenin tüm köşegenlerinin sayısı nedir?

What number is the sum of diagonals of a regular polygon that one of interior angles is 40° surplus of 6 times of an exterior angles?

A) 45 B) 90 C) 104 D) 135 E) 170

15. Bir dış açısının ölçüsünün bir iç açısının ölçüsüne oranı $\frac{1}{5}$ olan düzgün çokgenin tüm köşegenlerinin sayısı nedir?

What is the sum of diagonals of a regular polygon which the ratio of an exterior angle measurement to interior angle measurement is 1/5?

A) 12 B) 20 C) 28 D) 54 E) 80

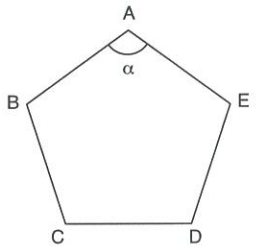
16. Düzgün bir onikigenin ağırlık merkezinden geçen kaç köşegeni vardır?

What is the number of diagonals in a regular dodecagon which goes throw the center of gravity?

A) 6 B) 12 C) 27 D) 36 E) 54

PUZA YAYINLARI

1.



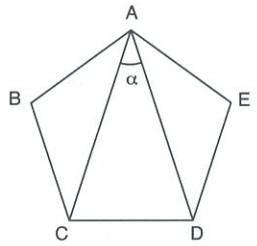
ABCDE düzgün beşgen

ABCDE regular pentagon

$\Rightarrow m(\widehat{BAE}) = \alpha = ?$

A) 36 B) 72 C) 108 D) 120 E) 150

2.



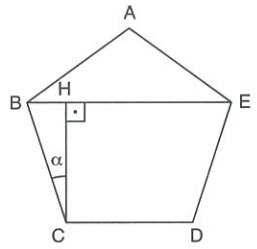
ABCDE düzgün beşgen

ABCDE regular pentagon

$\Rightarrow m(\widehat{CAD}) = \alpha = ?$

A) 18 B) 36 C) 72 D) 90 E) 108

3.



ABCDE düzgün beşgen

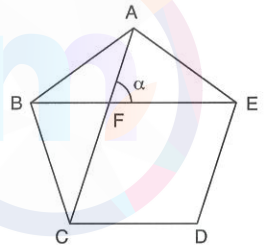
ABCDE regular pentagon

$[CH] \perp [BE]$

$\Rightarrow m(\widehat{BCH}) = \alpha = ?$

A) 9 B) 18 C) 36 D) 54 E) 72

4.



ABCDE düzgün beşgen

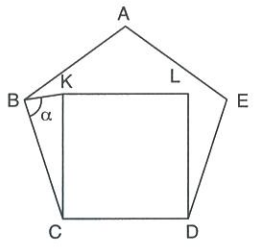
ABCDE regular pentagon

$\Rightarrow m(\widehat{AFE}) = \alpha = ?$

A) 144 B) 108 C) 72 D) 54 E) 36

PUZA YAYINLARI

5.



ABCDE düzgün beşgen

ABCDE regular pentagon

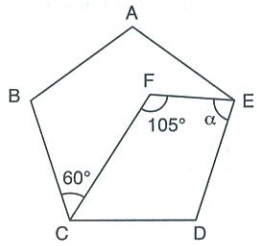
KLDC kare

KLDC square

$\Rightarrow m(\widehat{KBC}) = \alpha = ?$

A) 72 B) 78 C) 80 D) 81 E) 85

6.



ABCDE düzgün beşgen

ABCDE regular pentagon

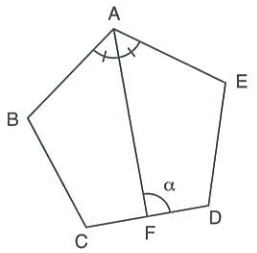
$m(\widehat{BCF}) = 60°$

$m(\widehat{CFE}) = 105°$

$\Rightarrow m(\widehat{FED}) = \alpha = ?$

A) 89 B) 95 C) 99 D) 105 E) 109

7.



ABCDE düzgün beşgen

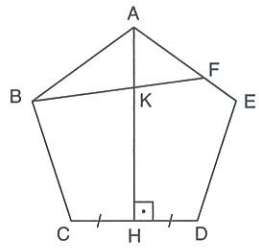
ABCDE regular pentagon

$m(\widehat{BAF}) = m(\widehat{FAE})$

$\Rightarrow m(\widehat{AFD}) = \alpha = ?$

A) 108 B) 90 C) 72 D) 54 E) 36

8.



ABCDE düzgün beşgen

ABCDE regular pentagon

$[AH] \perp [CD]$

$|CH| = |HD|$

$|AF| = 4$ br

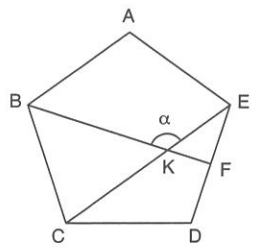
$|FE| = 2$ br

$|BK| = 4$ br

$\Rightarrow |KF| = x = ?$

A) $\frac{5}{3}$ B) 2 C) $\frac{8}{3}$ D) 4 E) 6

9.



ABCDE düzgün beşgen

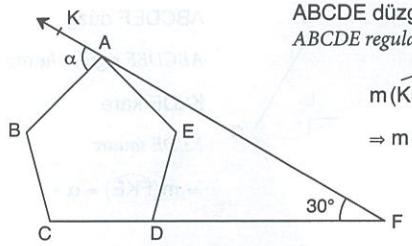
ABCDE regular pentagon

$|EF| = |FD|$

$\Rightarrow m(\widehat{BKE}) = \alpha = ?$

A) 144 B) 126 C) 108 D) 90 E) 72

10.



ABCDE düzgün beşgen

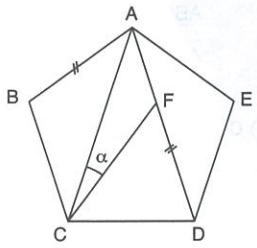
ABCDE regular pentagon

$m(\widehat{KFC}) = 30°$

$\Rightarrow m(\widehat{KAB}) = \alpha = ?$

A) 54 B) 60 C) 66 D) 76 E) 82

11.



ABCDE düzgün beşgen

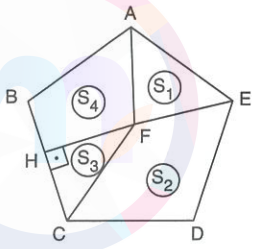
ABCDE regular pentagon

$|AB| = |FD|$

$\Rightarrow m(\widehat{ACF}) = \alpha = ?$

A) 18 B) 28 C) 36 D) 54 E) 72

12.



F merkezli

ABCDE düzgün beşgen

With a center F

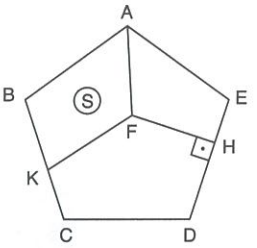
ABCDE regular pentagon

$[EH] \perp [BC]$

$\Rightarrow \dfrac{S_2 - S_3}{S_1 + S_4} = ?$

A) $\frac{1}{3}$ B) $\frac{3}{5}$ C) 1 D) $\frac{3}{2}$ E) $\frac{7}{3}$

13.



F merkezli

ABCDE düzgün beşgen

With a center F

ABCDE regular pentagon

$[FH] \perp [ED]$

$|AE| = 6$ br

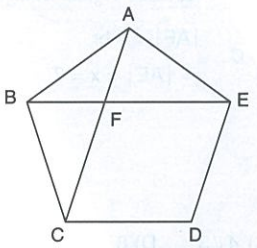
$|FH| = 4$ br

$|KC| = 2$ br

$\Rightarrow A(ABKF) = S = ?$

A) 12 B) 14 C) 16 D) 20 E) 24

14.



ABCDE düzgün beşgen

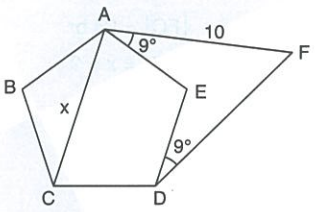
ABCDE regular pentagon

$Ç(FEDC) = 36$ br

$\Rightarrow Ç(ABCDE) = ?$

A) 10 B) 15 C) 30 D) 45 E) 60

15.



ABCDE düzgün beşgen

ABCDE regular pentagon

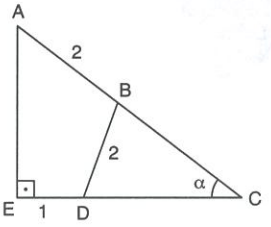
$m(\widehat{FAE}) = m(\widehat{EDF}) = 9°$

$|AF| = 10$ br

$\Rightarrow |AC| = x = ?$

A) 5 B) $5\sqrt{2}$ C) 10 D) $10\sqrt{2}$ E) $10\sqrt{3}$

16.



$|AB| = 2$ br

$|BD| = 2$ br

$|ED| = 1$ br

$\Rightarrow m(\widehat{ACE}) = \alpha = ?$

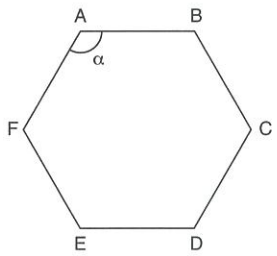
A) 36 B) 48 C) 54 D) 72 E) 81

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

1.



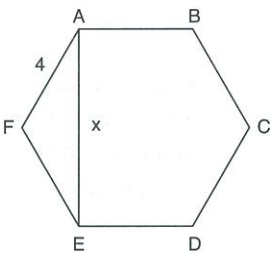
ABCDEF düzgün altıgen

ABCDEF regular hexagon

$\Rightarrow m(\widehat{BAF}) = \alpha = ?$

A) 150 B) 135 C) 120 D) 110 E) 108

2.



ABCDEF düzgün altıgen

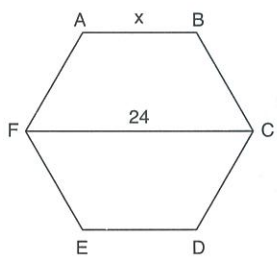
ABCDEF regular hexagon

$|AF| = 4$ br

$\Rightarrow |AE| = x = ?$

A) 2 B) 4 C) $4\sqrt{3}$ D) 8 E) $8\sqrt{3}$

3.



ABCDEF düzgün altıgen

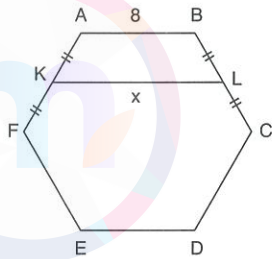
ABCDEF regular hexagon

$|FC| = 24$ br

$|AB| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 16

4.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

$|AK| = |KF|$

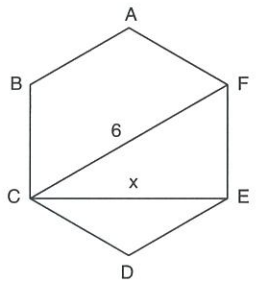
$|BL| = |LC|$

$|AB| = 8$ br

$\Rightarrow |KL| = x = ?$

A) 10 B) 11 C) 12 D) 13 E) 14

5.



ABCDEF düzgün altıgen

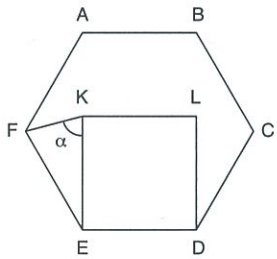
ABCDEF regular hexagon

$|CF| = 6$ br

$\Rightarrow |CE| = x = ?$

A) 3 B) $3\sqrt{2}$ C) $3\sqrt{3}$ D) 16 E) $6\sqrt{3}$

6.



ABCDEF düzgün altıgen,

ABCDEF regular hexagon

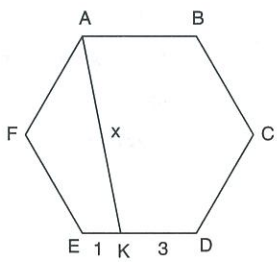
KLDE kare

KLDE square

$\Rightarrow m(\widehat{FKE}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 75 E) 81

7.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

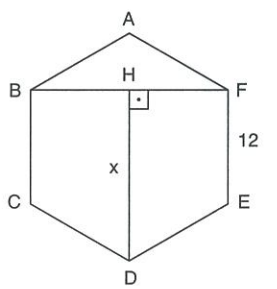
$|EK| = 1$ br

$|KD| = 3$ br

$\Rightarrow |AK| = x = ?$

A) 4 B) $2\sqrt{3}$ C) $4\sqrt{3}$ D) 7 E) $4\sqrt{2}$

8.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

$[DH] \perp [BF]$

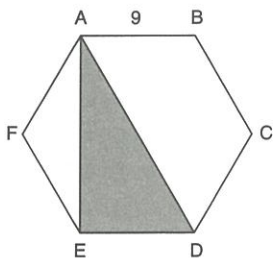
$|FE| = 12$ br

$\Rightarrow |HD| = x = ?$

A) 12 B) 14 C) 16 D) 18 E) 24

PUZA YAYINLARI

9.



ABCDEF düzgün altıgen

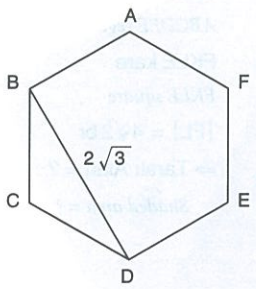
ABCDEF regular hexagon

$|AB| = 9$ br

$\Rightarrow A(AED) = ?$

A) $\frac{27\sqrt{3}}{2}$ B) 50 C) $81\sqrt{3}$ D) 81 E) $\frac{81\sqrt{3}}{2}$

10.



ABCDEF düzgün altıgen

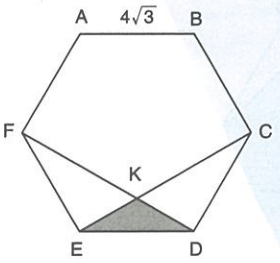
ABCDEF regular hexagon

$|BD| = 2\sqrt{3}$ br

$\Rightarrow A(ABCDEF) = ?$

A) $4\sqrt{3}$ B) $6\sqrt{3}$ C) $12\sqrt{3}$ D) $18\sqrt{3}$ E) $24\sqrt{3}$

11.



ABCDEF düzgün altıgen

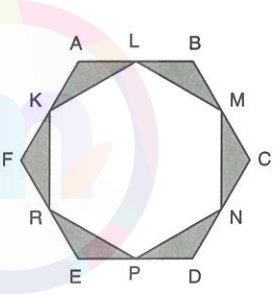
ABCDEF regular hexagon

$|AB| = 4\sqrt{3}$ br

$\Rightarrow A(EKD) = ?$

A) 16 B) $8\sqrt{3}$ C) 8 D) $4\sqrt{3}$ E) 4

12.



ABCDEF ve KLMNPR düzgün altıgen

ABCDEF and KLMNPR regular hexagon

$|BM| = |MC|$

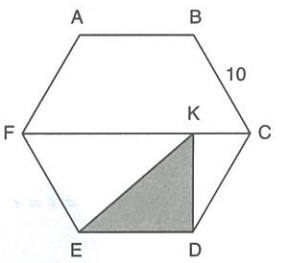
$|BM| = 4$ br

$\Rightarrow$ Taralı alan = ?

Shaded area = ?

A) $48\sqrt{3}$ B) $24\sqrt{3}$ C) $16\sqrt{3}$ D) $12\sqrt{3}$ E) $8\sqrt{3}$

13.



ABCDEF düzgün altıgen

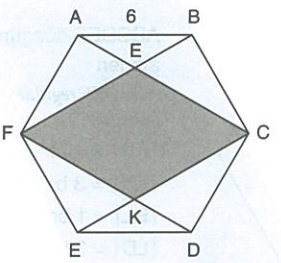
ABCDEF regular hexagon

$|BC| = 10$ br

$\Rightarrow A(EKD) = ?$

A) $25\sqrt{3}$ B) $20\sqrt{3}$ C) 20 D) $10\sqrt{3}$ E) 10

14.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

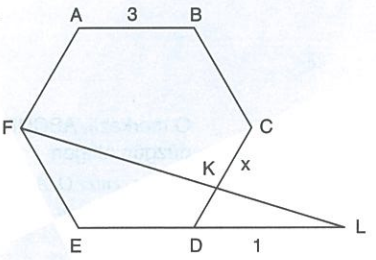
$|AB| = 6$ br

$\Rightarrow$ Taralı Alan = ?

Shaded area = ?

A) $24\sqrt{3}$ B) $16\sqrt{3}$ C) $8\sqrt{3}$ D) 8 E) $4\sqrt{3}$

15.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

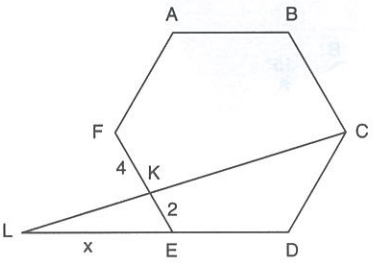
$|AB| = 3$ br

$|DL| = 1$ br

$\Rightarrow |KC| = x = ?$

A) 1 B) 2 C) $\frac{18}{7}$ D) $\frac{18}{5}$ E) $\frac{32}{3}$

16.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

$|FK| = 4$ br

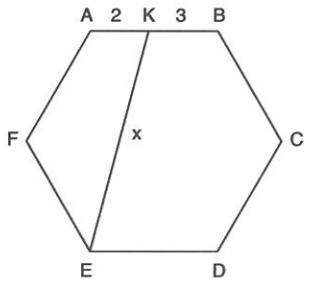
$|KE| = 2$ br

$\Rightarrow |LE| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

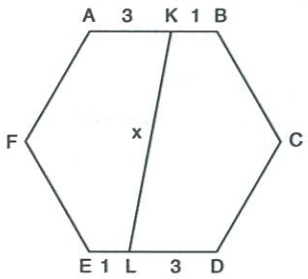
1.



ABCDEF düzgün altıgen
ABCDEF regular hexagon
$|AK| = 2$ br
$|KB| = 3$ br
$\Rightarrow |KE| = x = ?$

A) 5 B) $\sqrt{29}$ C) 8 D) $\sqrt{79}$ E) 13

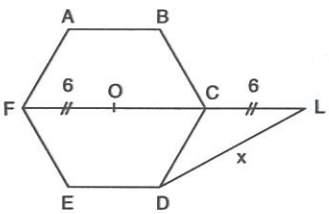
2.



ABCDEF düzgün altıgen
ABCDEF regular hexagon
$|KB| = 1$ br
$|AK| = 3$ br
$|EL| = 1$ br
$|LD| = 3$ br
$\Rightarrow |KL| = x = ?$

A) 6 B) $4\sqrt{3}$ C) 7 D) $5\sqrt{2}$ E) $2\sqrt{13}$

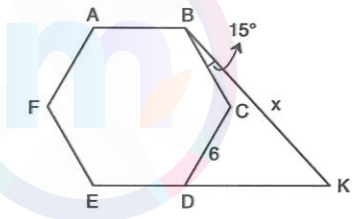
3.



O merkezli, ABCDEF düzgün altıgen
With a center O, ABCDEF regular hexagon
$|FO| = 6$ br
$|CL| = 6$ br
$\Rightarrow |DL| = x = ?$

A) $6\sqrt{3}$ B) $6\sqrt{2}$ C) 6 D) $3\sqrt{3}$ E) 3

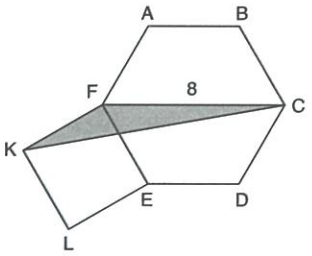
4.



ABCDEF düzgün altıgen
ABCDEF regular hexagon
$|DC| = 6$ br
$m(\widehat{CBK}) = 15°$
$\Rightarrow |BK| = x = ?$

A) $3\sqrt{2}$ B) $3\sqrt{3}$ C) $6\sqrt{2}$ D) $6\sqrt{3}$ E) $6\sqrt{6}$

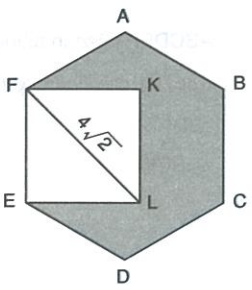
5.



ABCDEF düzgün altıgen
ABCDEF regular hexagon
KLEF kare
KLEF square
$|FC| = 8$ br
$\Rightarrow A(KFC) = ?$

A) $16\sqrt{3}$ B) $8\sqrt{3}$ C) 8 D) $4\sqrt{3}$ E) 4

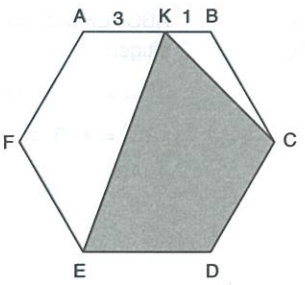
6.



ABCDEF düzgün altıgen
ABCDEF regular hexagon
FKLE kare
FKLE square
$|FL| = 4\sqrt{2}$ br
$\Rightarrow$ Taralı Alan = ?
Shaded area = ?

A) $8\sqrt{3}+8$ B) $12\sqrt{3}-12$ C) $24\sqrt{3}-16$
D) $4\sqrt{3}$ E) $2\sqrt{3}$

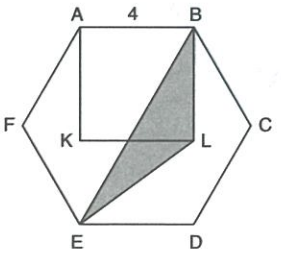
7.



ABCDEF düzgün altıgen
ABCDEF regular hexagon
$|KB| = 1$ br
$|AK| = 3$ br
$\Rightarrow$ Taralı Alan = ?
Shaded area = ?

A) $24\sqrt{3}$ B) $17\sqrt{3}$ C) $13\sqrt{3}$ D) $12\sqrt{3}$ E) $11\sqrt{3}$

8.

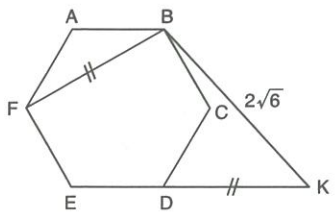


ABCDEF düzgün altıgen
ABLK regular hexagon
ABLK kare
ABLK square
$|AB| = 4$ br
$\Rightarrow$ Taralı Alan = ?
Shaded area = ?

A) $4\sqrt{3}$ B) 8 C) $8\sqrt{3}$ D) 16 E) $16\sqrt{3}$

PUZA YAYINLARI

9.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

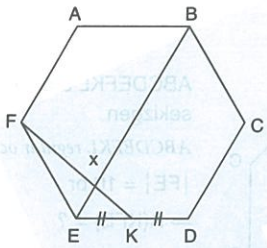
$|BK| = 2\sqrt{6}$ br

$|FB| = |DK|$

$\Rightarrow$ A(ABCDEF) = ?

A) 24 B) $12\sqrt{3}$ C) $12\sqrt{2}$ D) $8\sqrt{3}$ E) $6\sqrt{3}$

10.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

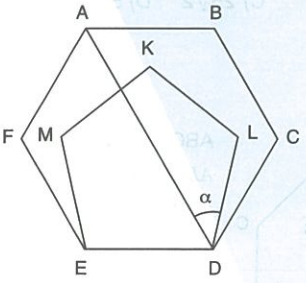
$|EB| = 12$ br

$|EK| = |KD|$

$\Rightarrow |FK| = x = ?$

A) $\sqrt{7}$ B) 6 C) $3\sqrt{7}$ D) $6\sqrt{3}$ E) $6\sqrt{7}$

11.



ABCDEF düzgün altıgen,

ABCDEF regular hexagon

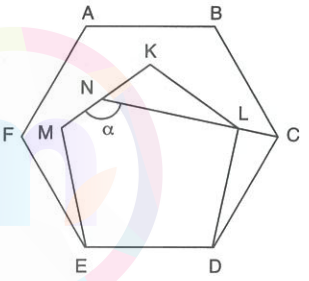
MKLDE düzgün beşgen

MKLDE regular pentagon

$\Rightarrow m(\widehat{ADL}) = \alpha = ?$

A) 18 B) 30 C) 48 D) 60 E) 72

12.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

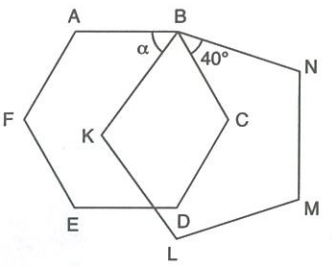
MKLDE düzgün beşgen

MKLDE regular pentagon

$\Rightarrow m(\widehat{MNC}) = \alpha = ?$

A) 120 B) 118 C) 116 D) 112 E) 110

13.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

KBNML düzgün beşgen

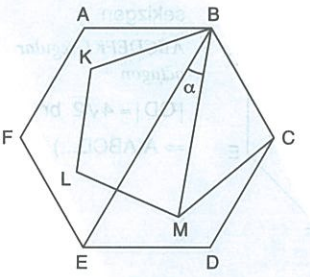
KBNML regular pentagon

$m(\widehat{CBN}) = 40°$

$\Rightarrow m(\widehat{ABK}) = \alpha = ?$

A) 28 B) 52 C) 54 D) 68 E) 70

14.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

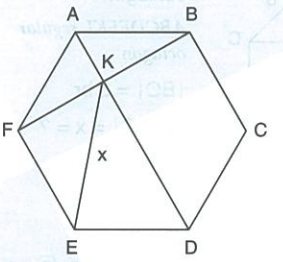
KBCML düzgün beşgen

KBCML regular pentagon

$\Rightarrow m(\widehat{EBM}) = \alpha = ?$

A) 72 B) 60 C) 36 D) 24 E) 12

15.



ABCDEF düzgün altıgen

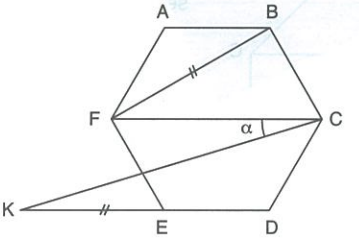
ABCDEF regular hexagon

$|BF| = 12$ br

$\Rightarrow |KE| = x = ?$

A) 6 B) $2\sqrt{15}$ C) $\sqrt{21}$ D) $6\sqrt{3}$ E) $2\sqrt{21}$

16.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

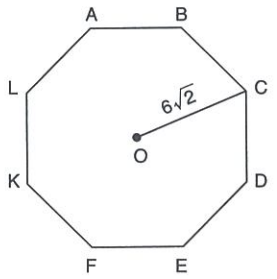
$|FB| = |KE|$

$\Rightarrow m(\widehat{FCK}) = \alpha = ?$

A) 9 B) 15 C) 36 D) 54 E) 72

PUZA YAYINLARI

1.



ABCDEFKL düzgün sekizgen

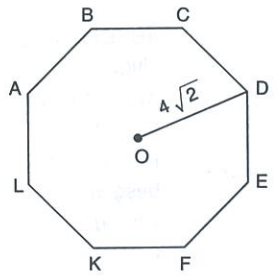
ABCDEFKL regular octagon

$|OC| = 6\sqrt{2}$

$\Rightarrow$ A(ABCDEFKL) = ?

A) $12\sqrt{3}$ B) $24\sqrt{2}$ C) $24\sqrt{3}$ D) $48\sqrt{2}$ E) $144\sqrt{2}$

2.



ABCDEFKL düzgün sekizgen

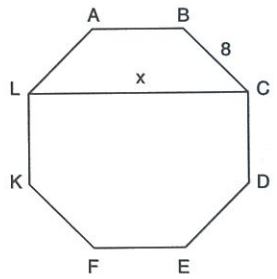
ABCDEFKL regular octagon

$|OD| = 4\sqrt{2}$ br

$\Rightarrow$ A(ABCD...) = ?

A) 128 B) $64\sqrt{2}$ C) 64 D) $32\sqrt{2}$ E) 32

3.



ABCDEFKL düzgün sekizgen

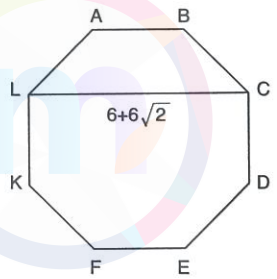
ABCDEFKL regular octagon

$|BC| = 8$ br

$\Rightarrow |LC| = x = ?$

A) $8\sqrt{2}+8$ B) $4\sqrt{2}+8$ C) $8\sqrt{2}+4$ D) $4\sqrt{2}+4$ E) 8

4.



ABCDEFKL düzgün sekizgen

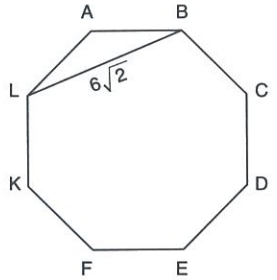
ABCDEFKL regular octagon

$|LC| = 6+6\sqrt{2}$ br

$\Rightarrow |AB| = ?$

A) 3 B) 6 C) 8 D) 12 E) 16

5.



ABCDEFKL düzgün sekizgen

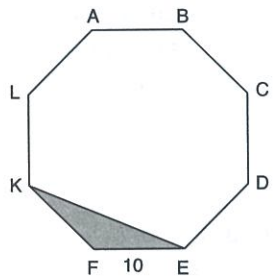
ABCDEFKL regular octagon

$|LB| = 6\sqrt{2}$ br

$\Rightarrow$ A(ABCDEFKL) = ?

A) $54\sqrt{2}$ B) $72\sqrt{2}$ C) 108 D) $108\sqrt{2}$ E) $144\sqrt{2}$

6.



ABCDEFKL düzgün sekizgen

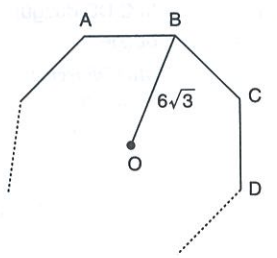
ABCDEFKL regular octagon

$|FE| = 10$ br

$\Rightarrow$ A(KFE) = ?

A) 15 B) 25 C) $25\sqrt{2}$ D) 50 E) $50\sqrt{3}$

7.



ABCD... düzgün onikigen

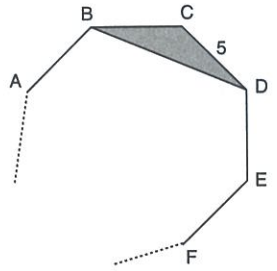
ABCD... regular dodecagon

$|OB| = 6\sqrt{3}$ br

$\Rightarrow$ A(ABCD...) = ?

A) 324 B) $108\sqrt{3}$ C) 144 D) $52\sqrt{3}$ E) 72

8.



ABCD... düzgün onikigen

ABCD... regular dodecagon

$|CD| = 5$ br

$\Rightarrow$ A(BCD) = ?

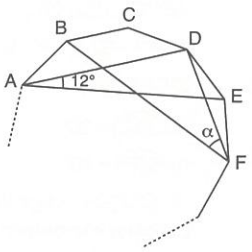
A) 25 B) $\frac{25}{2}$ C) $\frac{25\sqrt{3}}{4}$ D) $\frac{25}{4}$ E) $\frac{25}{8}$

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

9.



ABCD... düzgün çokgen

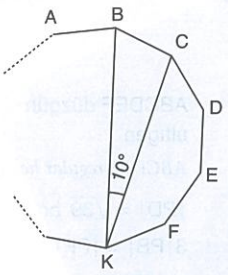
ABCD... regular polygon

$m(\widehat{DAE}) = 12°$

$\Rightarrow m(\widehat{BFD}) = \alpha = ?$

A) 6 B) 9 C) 12 D) 24 E) 48

10.



ABCD... düzgün çokgen

ABCD... regular polygon

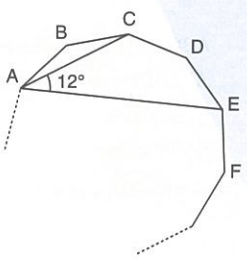
$m(\widehat{BKC}) = 10°$

$\Rightarrow$ Düzgün çokgen kaç kenarlıdır?

How many edges does a regular polygon have?

A) 10 B) 12 C) 14 D) 16 E) 18

11.



ABCD... düzgün çokgen

ABCD... regular polygon

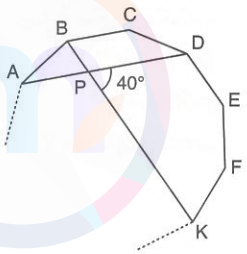
$m(\widehat{CAE}) = 12°$

$\Rightarrow$ Düzgün çokgen kaç kenarlıdır?

How many edges does a regular polygon have?

A) 30 B) 26 C) 24 D) 20 E) 18

12.



ABCD... düzgün çokgen

ABCD... regular polygon

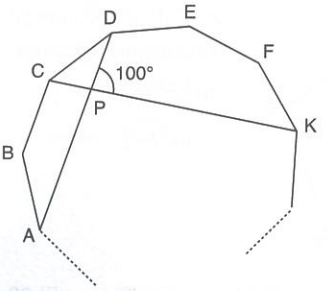
$m(\widehat{DPK}) = 40°$

$\Rightarrow$ Düzgün çokgen kaç kenarlıdır?

How many edges does a regular polygon have?

A) 14 B) 15 C) 16 D) 18 E) 22

13.



ABCD... düzgün çokgen

ABCD... regular polygon

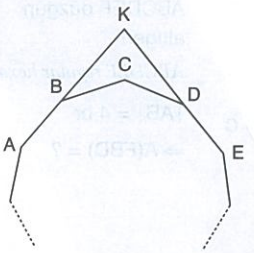
$m(\widehat{DPK}) = 100°$

$\Rightarrow$ Düzgün çokgen kaç kenarlıdır?

How many edges does a regular polygon have?

A) 7 B) 9 C) 11 D) 12 E) 15

14.



ABCD... düzgün çokgen

ABCD... regular polygon

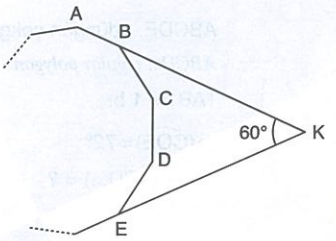
$m(\widehat{BKD}) = 60°$

$\Rightarrow$ Düzgün çokgen kaç kenarlıdır?

How many edges does a regular polygon have?

A) 7 B) 9 C) 10 D) 11 E) 12

15.



ABCD... düzgün çokgen

ABCD... regular polygon

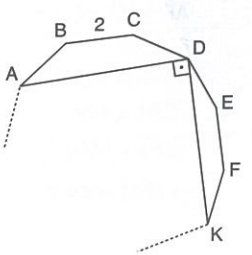
$m(\widehat{AKE}) = 60°$

$\Rightarrow$ Düzgün çokgen kaç kenarlıdır?

How many edges does a regular polygon have?

A) 12 B) 10 C) 9 D) 8 E) 7

16.



ABCD... düzgün çokgen

ABCD... regular polygon

$[AD] \perp [DK]$

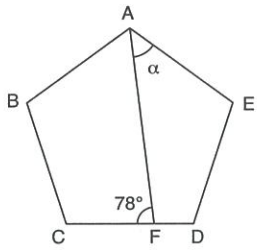
$|BC| = 2$ br

$\Rightarrow$ Ç(ABCD...) = ?

A) 24 B) 18 C) 16 D) 12 E) 8

PUZA YAYINLARI

1.



ABCDE düzgün beşgen

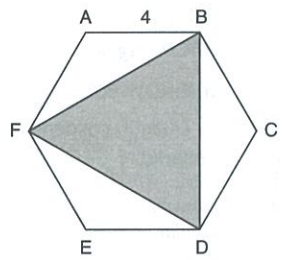
ABCDE regular pentagon

$m(\widehat{AFC}) = 78°$

$\Rightarrow m(\widehat{FAE}) = \alpha = ?$

A) 42 B) 48 C) 54 D) 66 E) 96

2.



ABCDEF düzgün altıgen

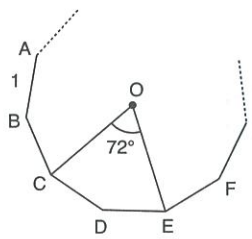
ABCDEF regular hexagon

$|AB| = 4$ br

$\Rightarrow A(FBD) = ?$

A) $4\sqrt{3}$ B) 8 C) $8\sqrt{3}$ D) 12 E) $12\sqrt{3}$

3.



ABCDE... düzgün çokgen

ABCD... regular polygon

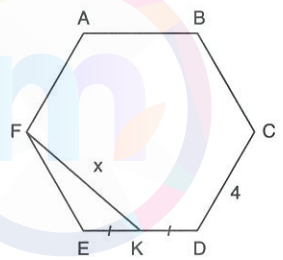
$|AB| = 1$ br

$m(\widehat{COE}) = 72°$

$\Rightarrow Ç(ABCD...) = ?$

A) 15 B) 12 C) 10 D) 8 E) 6

4.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

$|CD| = 4$ br

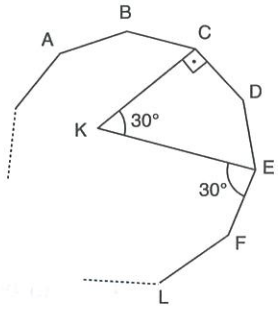
$|EK| = |KD|$

$\Rightarrow |FK| = x = ?$

A) 7 B) $4\sqrt{3}$ C) $\sqrt{30}$ D) $2\sqrt{7}$ E) 4

PUZA YAYINLARI

5.



ABCD... düzgün çokgen

ABCD... regular polygon

$[CD] \perp [CK]$

$m(\widehat{CKE}) = 30°$

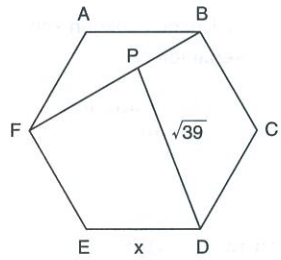
$m(\widehat{KEF}) = 30°$

$\Rightarrow$ Düzgün çokgenin bir dış açısı kaç derecedir?

How many degrees is an exterior angle of a regular polygon?

A) 30 B) 45 C) 48 D) 54 E) 66

6.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

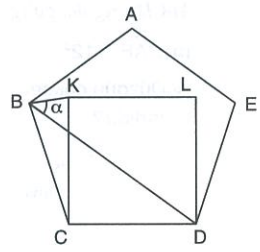
$|PD| = \sqrt{39}$ br

$3|PB| = |FP|$

$\Rightarrow |ED| = x = ?$

A) 12 B) 10 C) 8 D) 6 E) 4

7.



ABCDE düzgün beşgen

ABCDE regular pentagon

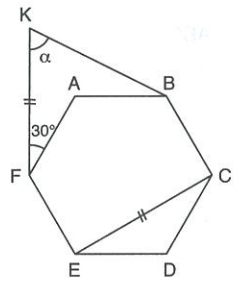
KLCD kare

KLCD square

$\Rightarrow m(\widehat{KBD}) = \alpha = ?$

A) 81 B) 62 C) 45 D) 39 E) 36

8.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

$|KF| = |EC|$

$m(\widehat{KFA}) = 30°$

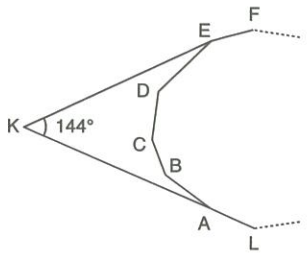
$\Rightarrow m(\widehat{FKB}) = \alpha = ?$

A) 90 B) 75 C) 60 D) 45 E) 30

PUZA YAYINLARI

PUZA YAYINLARI

9.



ABCD... düzgün çokgen

ABCD... regular polygon

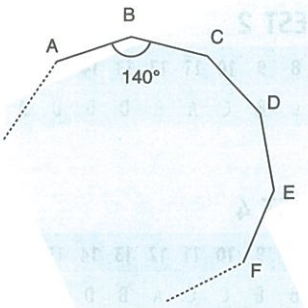
$m(\widehat{FKL}) = 144°$

⇒ Düzgün çokgen kaç kenarlıdır?

How many edges does a regular polygon have?

A) 18 B) 24 C) 32 D) 36 E) 50

10.



ABCD... düzgün çokgen

ABCD... regular polygon

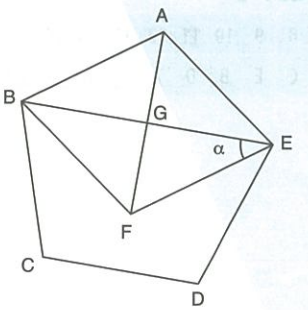
$m(\widehat{ABC}) = 140°$

⇒ Düzgün çokgen kaç kenarlıdır?

How many edges does a regular polygon have?

A) 8 B) 9 C) 10 D) 11 E) 12

11.



ABCDE düzgün beşgen

ABCDE regular pentagon

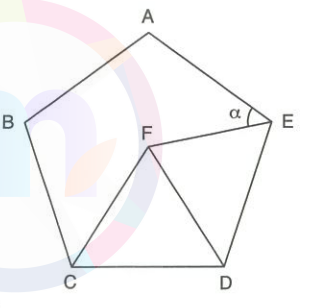
ABF eşkenar üçgen

ABF equilateral triangle

⇒ $m(\widehat{BEF}) = \alpha = ?$

A) 48 B) 42 C) 36 D) 30 E) 24

12.



ABCDE düzgün beşgen

ABCDE regular pentagon

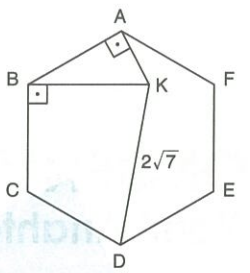
CDF eşkenar üçgen

CDF equilateral triangle

⇒ $m(\widehat{FEA}) = \alpha = ?$

A) 42 B) 40 C) 36 D) 30 E) 18

13.



ABCDEF düzgün altıgen

ABCDEF regular hexagon

$[BA] \perp [AK]$

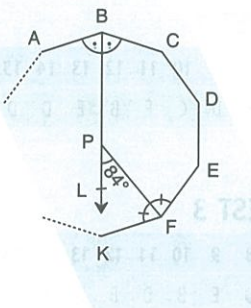
$[BK] \perp [BC]$

$|KD| = 2\sqrt{7}$ br

⇒ Ç(ABCDEF) = ?

A) 12 B) $12\sqrt{3}$ C) 12 D) 24 E) $24\sqrt{3}$

14.



ABCD... düzgün çokgen

ABCD... regular polygon

$m(\widehat{FPL}) = 84°$

$m(\widehat{ABL}) = m(\widehat{LBC})$

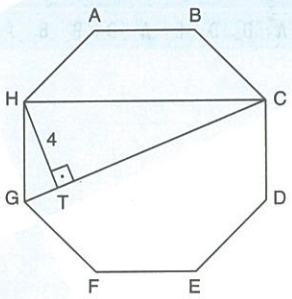
$m(\widehat{KFP}) = m(\widehat{PFE})$

⇒ Düzgün çokgen kaç kenarlıdır?

How many edges does a regular polygon have?

A) 10 B) 12 C) 15 D) 16 E) 18

15.



ABCDEFGH düzgün sekizgen

ABCDEFGH regular octagon

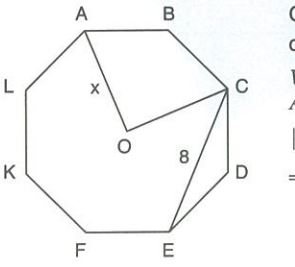
$[HT] \perp [GC]$

$|HT| = 4$ br

⇒ A(GHC) = ?

A) 8 B) $8\sqrt{2}$ C) 16 D) $16\sqrt{2}$ E) 32

16.



O merkezli ABCDEFKL düzgün sekizgen

With a center O

ABCDEFKL regular octagon

$|CE| = 8$ br

⇒ $|AO| = x = ?$

A) 2 B) 5 C) $2\sqrt{7}$ D) $4\sqrt{2}$ E) 8

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

ÇOKGENLER POLYGONS

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	E	C	B	C	A	B	D	C	E	B	E	D	D	A

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	B	C	D	C	B	C	B	C	A	B	D	D	D	A

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	D	C	C	D	D	D	E	B	D	B	A	A	C	E

TEST 4

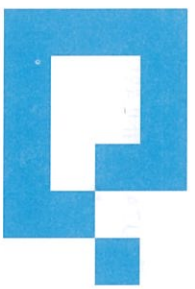
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	E	A	E	C	C	C	B	E	C	C	A	B	D	E	B

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	B	A	B	B	C	A	D	D	E	A	D	B	B	A	A

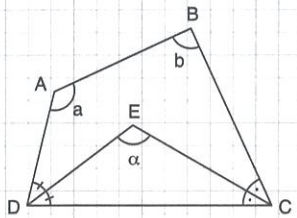
TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	E	C	D	B	E	C	C	E	B	D	A	B	C	D	D



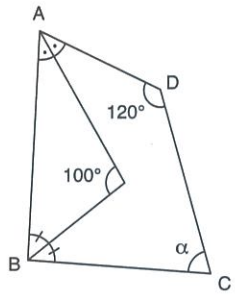
DÖRTGENLER
QUADRILATERALS

ÖZELLİK|Property 1



$$\alpha = \frac{a+b}{2}$$

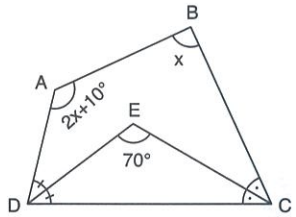
1.



$\Rightarrow \alpha = ?$

80

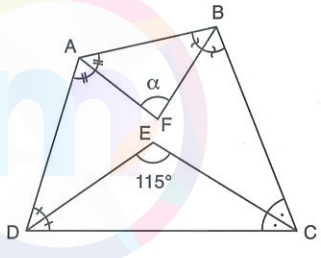
2.



$\Rightarrow x = ?$

$\frac{130}{3}$

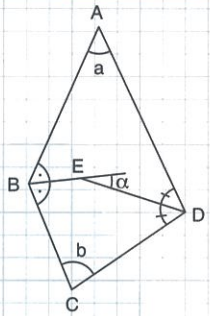
3.



$\Rightarrow \alpha = ?$

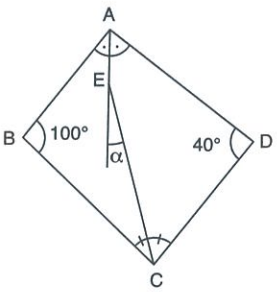
65

ÖZELLİK|Property 2



$$\alpha = \frac{|b-a|}{2}$$

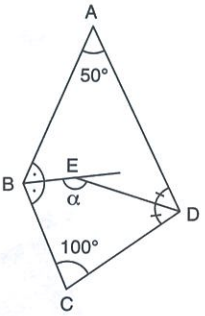
1.



$\Rightarrow \alpha = ?$

30

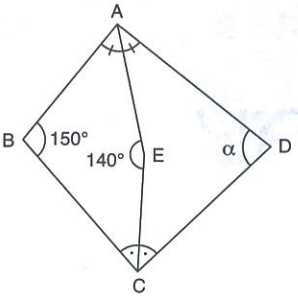
2.



$\Rightarrow \alpha = ?$

155

3.

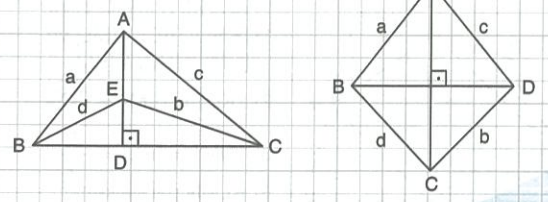


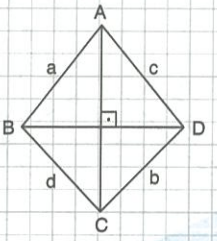
$\Rightarrow \alpha = ?$

70

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

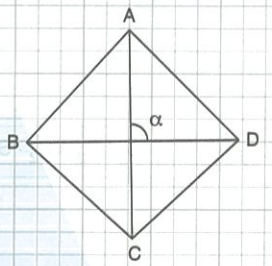
ÖZELLİK|Property 3





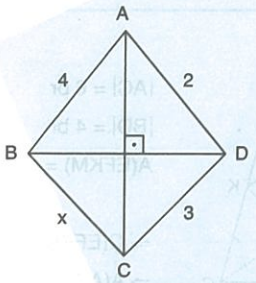
$$a^2 + b^2 = c^2 + d^2$$

ÖZELLİK|Property 4



$$A(ABCD) = \frac{1}{2}|AC| \cdot |BD| \cdot \sin\alpha$$

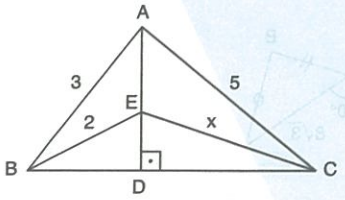
1.



$\Rightarrow x = ?$

$\sqrt{21}$

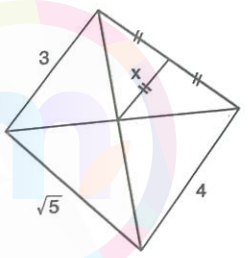
2.



$\Rightarrow x = ?$

$2\sqrt{5}$

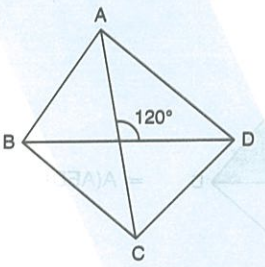
3.



$\Rightarrow x = ?$

$\sqrt{5}$

1.



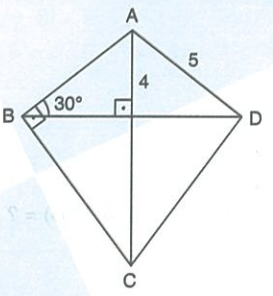
$|AC| = 6$ br

$|BD| = 4$ br

$\Rightarrow A(ABCD) = ?$

$6\sqrt{3}$

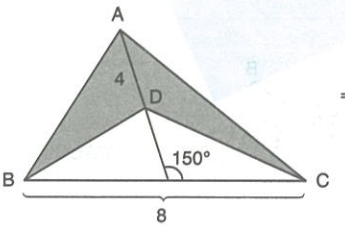
2.



$\Rightarrow A(ABCD) = ?$

$24 + 32\sqrt{3}$

3.



$\Rightarrow A(ABDC) = ?$

8

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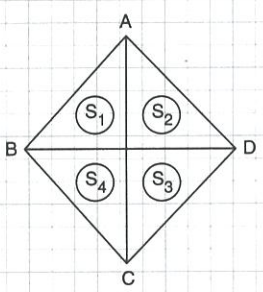
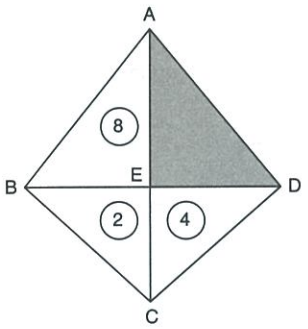
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 5



$S_1 \cdot S_3 = S_2 \cdot S_4$

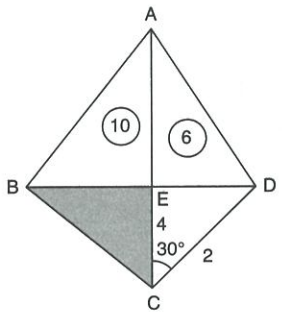
1.



⇒ A(AED) = ?

16

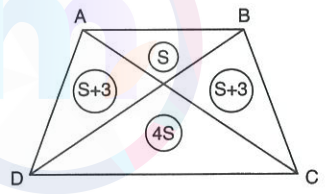
2.



⇒ A(BEC) = ?

$\frac{10}{3}$

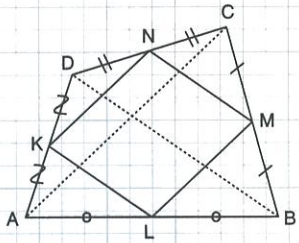
3.



⇒ A(ABCD) = ?

27

ÖZELLİK|Property 6



K, L, M, N orta noktalar
K, L, M, N middle points

1) [KN] // [AC] // [ML] ve [NM] // [DB] // [KL]

2) $|KN| = |LM| = \frac{|AC|}{2}$

3) $|NM| = |KL| = \frac{|BD|}{2}$

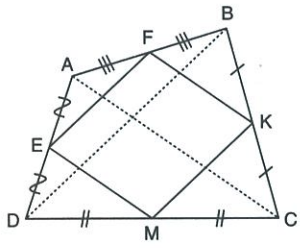
4) KLMN paralelkenar
KLMN parallelogram

5) Ç(KLMN) = |AC| + |BD|

6) A(ABCD) = 2 · A (KLMN)

7) A(DKN) + A(BML) = A(CNM) + A(KAL)

1.



|AC| = 6 br

|BD| = 4 br

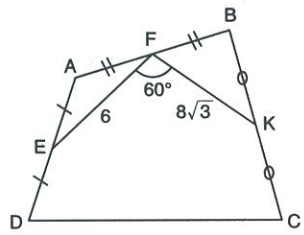
A(EFKM) = 10 br^2

⇒ Ç(EFKM) = ?

⇒ A(ABCD) = ?

10, 20

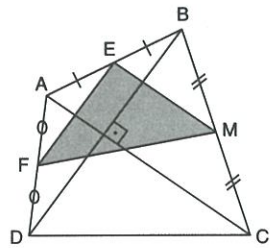
2.



⇒ A(ABCD) = ?

144

3.



|AC| = 4 br

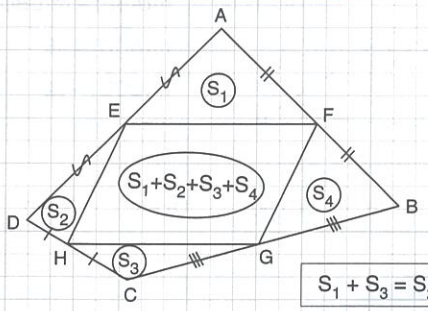
|BD| = 6 br

⇒ A(EFM) = ?

3

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

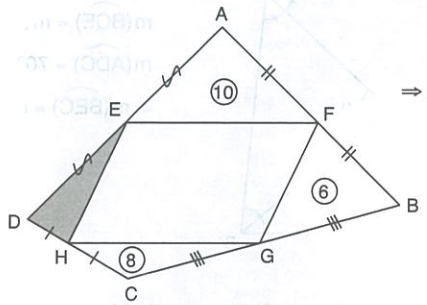
ÖZELLİK|Property 7



$S_1 + S_3 = S_2 + S_4$

$A(EFGH) = S_1 + S_2 + S_3 + S_4$

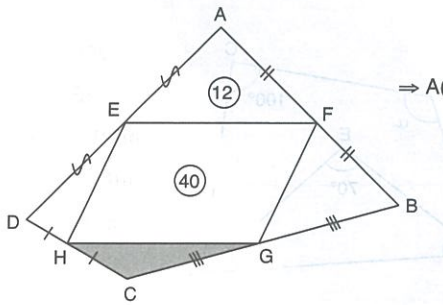
1.



⇒ A(DHE) = ?

12

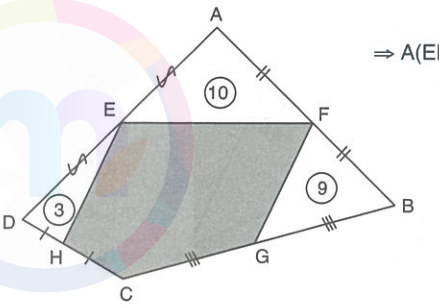
2.



⇒ A(HCG) = ?

8

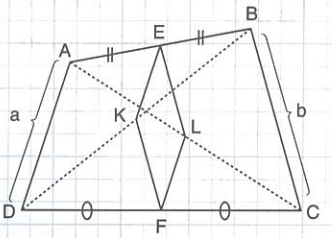
3.



⇒ A(EFGCH) = ?

26

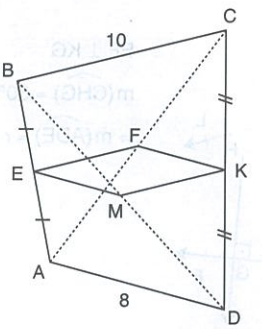
ÖZELLİK|Property 8



|AL| = |LC|
|BK| = |KD|

Ç(EKFL) = a + b

1.

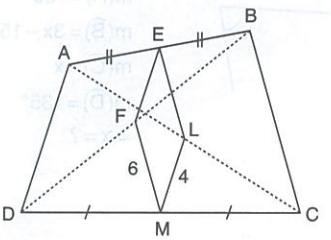


|BM| = |MD|
|AF| = |FC|

⇒ Ç(EFKM) = ?

18

2.

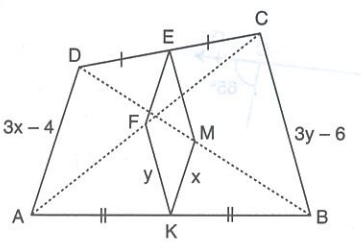


|ALI = ILCI
IDFI = IFBI

⇒ IADI + IBCI = ?

20

3.

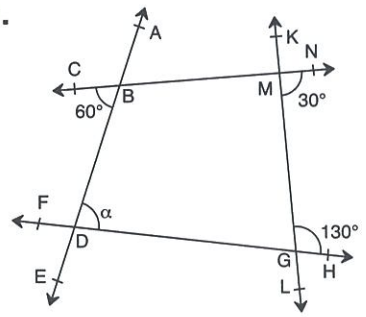


|DM| = |MB|
|AF| = |FC|
⇒ x + y = ?

10

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

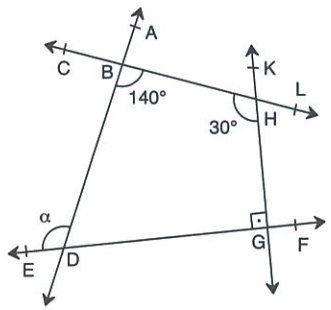
1.



$m(\widehat{CBE}) = 60°$
$m(\widehat{KGH}) = 130°$
$m(\widehat{NML}) = 30°$
$\Rightarrow m(\widehat{ADH}) = \alpha = ?$

A) 40 B) 50 C) 60 D) 70 E) 80

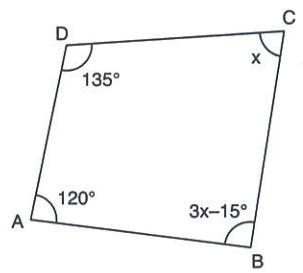
2.



EF ⊥ KG
$m(\widehat{CHG}) = 30°$
$\Rightarrow m(\widehat{ADE}) = \alpha = ?$

A) 120 B) 100 C) 80 D) 70 E) 60

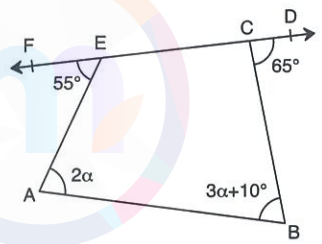
3.



$m(\widehat{A}) = 120°$
$m(\widehat{B}) = 3x - 15°$
$m(\widehat{C}) = x$
$m(\widehat{D}) = 135°$
$\Rightarrow x = ?$

A) 30 B) 45 C) 50 D) 60 E) 65

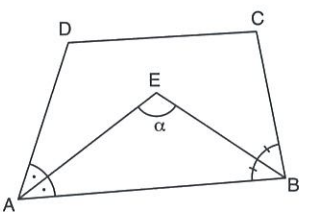
4.



$m(\widehat{FEA}) = 55°$
$m(\widehat{EAB}) = 2\alpha$
$m(\widehat{ABC}) = 3\alpha + 10°$
$m(\widehat{DCB}) = 65°$
$\Rightarrow \alpha = ?$

A) 11 B) 18 C) 22 D) 30 E) 36

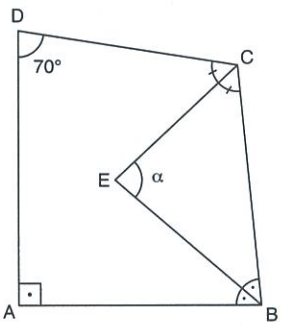
5.



$m(\widehat{DAE}) = m(\widehat{EAB})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{ADC}) = 48°$
$m(\widehat{DCB}) = 62°$
$\Rightarrow m(\widehat{AEB}) = \alpha = ?$

A) 40 B) 45 C) 50 D) 55 E) 60

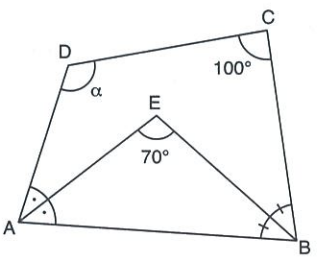
6.



[AD] ⊥ [AB]
$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{BCE}) = m(\widehat{ECD})$
$m(\widehat{ADC}) = 70°$
$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 50 B) 60 C) 70 D) 80 E) 85

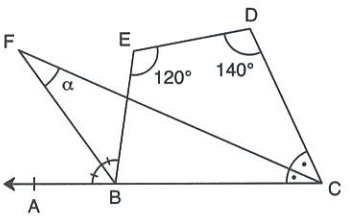
7.



$m(\widehat{DAE}) = m(\widehat{EAB})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{AEB}) = 70°$
$m(\widehat{BCD}) = 100°$
$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

8.



$m(\widehat{ABF}) = m(\widehat{FBE})$
$m(\widehat{ACF}) = m(\widehat{FCD})$
$m(\widehat{CDE}) = 140°$
$m(\widehat{DEB}) = 120°$
$\Rightarrow m(\widehat{BFC}) = \alpha = ?$

A) 130 B) 100 C) 70 D) 50 E) 40

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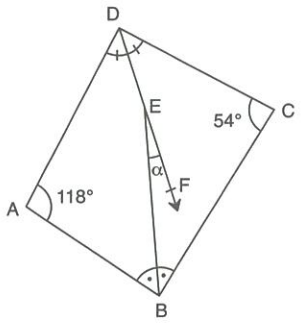
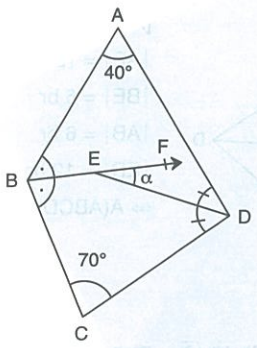
9.



$m(\widehat{ADF}) = m(\widehat{FDC})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{DAB}) = 118°$
$m(\widehat{DCB}) = 54°$
$\Rightarrow m(\widehat{BEF}) = \alpha = ?$

A) 27 B) 32 C) 48 D) 54 E) 64

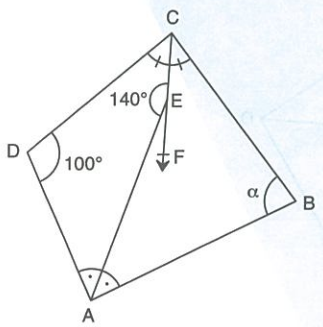
10.



$m(\widehat{ABF}) = m(\widehat{FBC})$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$m(\widehat{BAD}) = 40°$
$m(\widehat{BCD}) = 70°$
$\Rightarrow m(\widehat{FED}) = \alpha = ?$

A) 70 B) 50 C) 40 D) 30 E) 15

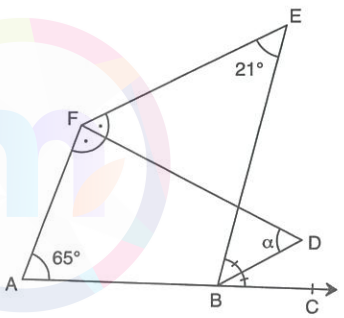
11.



$m(\widehat{DCF}) = m(\widehat{FCB})$
$m(\widehat{DAE}) = m(\widehat{EAB})$
$m(\widehat{CEA}) = 140°$
$m(\widehat{CDA}) = 100°$
$\Rightarrow m(\widehat{CBA}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

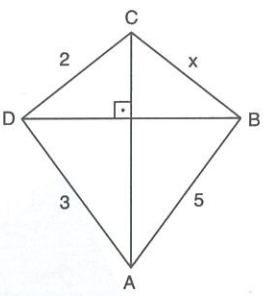
12.



$m(\widehat{EFD}) = m(\widehat{DFA})$
$m(\widehat{EBD}) = m(\widehat{DBC})$
$m(\widehat{FEB}) = 21°$
$m(\widehat{FAC}) = 65°$
$\Rightarrow m(\widehat{FDB}) = \alpha = ?$

A) 22 B) 44 C) 46 D) 56 E) 68

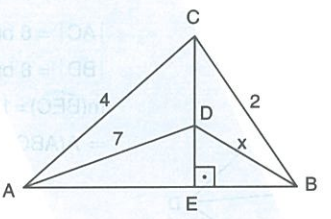
13.



$[AC] \perp [DB]$
$|AB| = 5$ br
$|CD| = 2$ br
$|DA| = 3$ br
$\Rightarrow |BC| = x = ?$

A) 4 B) $2\sqrt{5}$ C) $2\sqrt{6}$ D) $3\sqrt{6}$ E) $4\sqrt{6}$

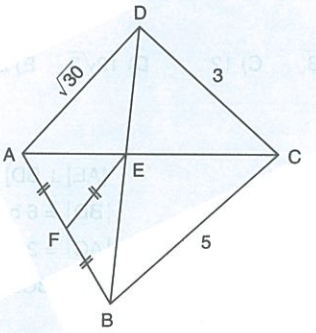
14.



$[EC] \perp [AB]$
$|AC| = 4$ br
$|AD| = 7$ br
$|BC| = 2$ br
$\Rightarrow |BD| = x = ?$

A) $2\sqrt{10}$ B) $\sqrt{39}$ C) $\sqrt{38}$ D) $\sqrt{37}$ E) 6

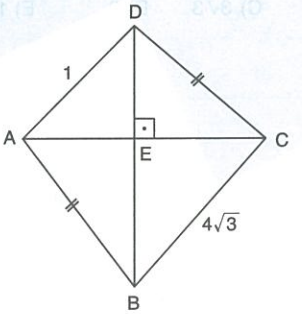
15.



$|AF| = |FB| = |FE|$
$|AD| = \sqrt{30}$ br
$|DC| = 3$ br
$|BC| = 5$ br
$\Rightarrow |AB| = ?$

A) 6 B) $2\sqrt{11}$ C) $\sqrt{46}$ D) $4\sqrt{3}$ E) 7

16.



$[AC] \perp [BD]$
$|AD| = 1$ br
$|BC| = 4\sqrt{3}$ br
$|AB| = |DC|$
$\Rightarrow |AB| = ?$

A) $\sqrt{7}$ B) $\frac{7\sqrt{2}}{2}$ C) $\frac{7}{2}$ D) 7 E) 14

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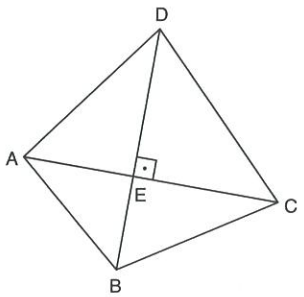
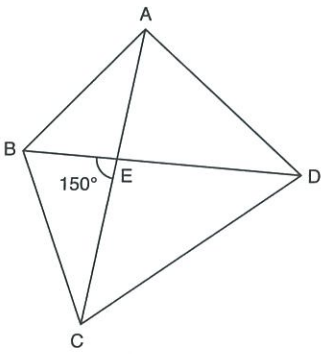
1.



$|AC| = 6$ br
$|BD| = 4$ br
$\Rightarrow A(ABCD) = ?$

A) 6 B) $6\sqrt{3}$ C) 12 D) $12\sqrt{3}$ E) 24

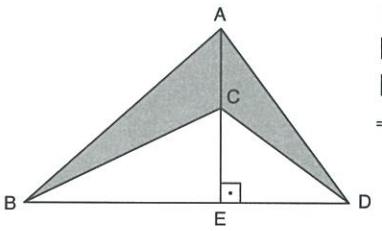
2.



$|AC| = 6$ br
$|BD| = 8$ br
$m(\widehat{BEC}) = 150°$
$\Rightarrow A(ABCD) = ?$

A) 6 B) $6\sqrt{3}$ C) 12 D) $12\sqrt{3}$ E) 24

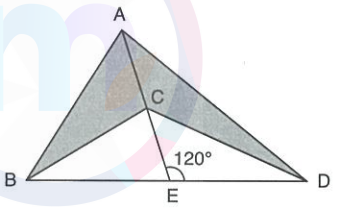
3.



$[AE] \perp [BD]$
$|BD| = 6$ br
$|AC| = 2$ br
$\Rightarrow A(ABCD) = ?$

A) 3 B) $3\sqrt{2}$ C) $3\sqrt{3}$ D) 6 E) 12

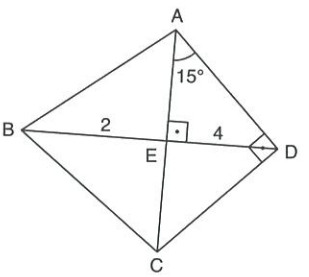
4.



$|BD| = 8$ br
$|AC| = 4$ br
$m(\widehat{AED}) = 120°$
$\Rightarrow A(ABCD) = ?$

A) 8 B) $8\sqrt{2}$ C) $8\sqrt{3}$ D) 16 E) $16\sqrt{3}$

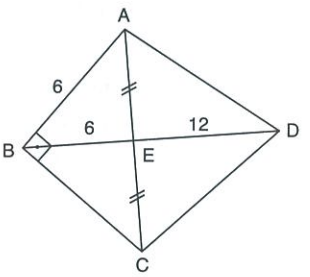
5.



$[AE] \perp [BD]$
$|BE| = 2$ br
$|ED| = 4$ br
$m(\widehat{DAC}) = 15°$
$\Rightarrow A(ABCD) = ?$

A) 48 B) $16\sqrt{3}$ C) $16\sqrt{2}$ D) 16 E) $8\sqrt{3}$

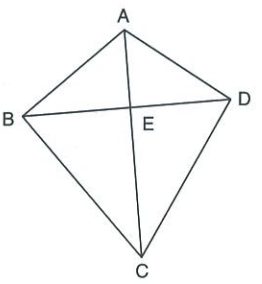
6.



$[AB] \perp [BC]$
$|AE| = |EC|$
$|BE| = 6$ br
$|AB| = 6$ br
$|ED| = 12$ br
$\Rightarrow A(ABCD) = ?$

A) 27 B) $27\sqrt{2}$ C) $48\sqrt{3}$ D) 54 E) $54\sqrt{3}$

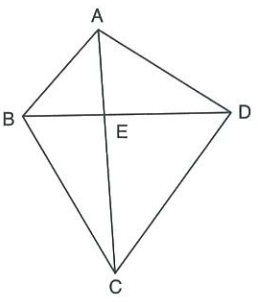
7.



$|EC| = 2|AE|$
$A(ABD) = 40$ br^2
$\Rightarrow A(ABCD) = ?$

A) 20 B) 40 C) 60 D) 80 E) 120

8.



$3|AE| = 2|EC|$
$A(ABCD) = 60$ br^2
$\Rightarrow A(ABD) = ?$

A) 60 B) 48 C) 36 D) 24 E) 12

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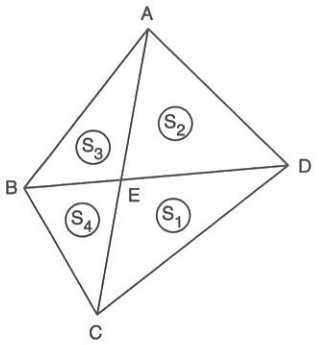
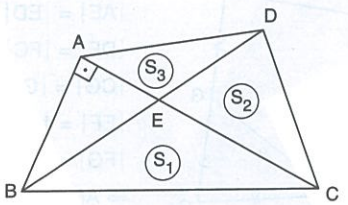
9.



$S_2 = 6\ br^2$
$S_3 = 2\ br^2$
$S_4 = 4\ br^2$
$\Rightarrow S_1 = ?$

A) 2 B) 4 C) 6 D) 12 E) 18

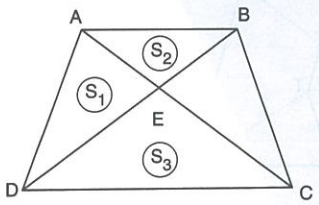
10.



$[AB] \perp [CA]$
$S_3 = 4\ br^2$
$S_2 = 4\sqrt{3}\ br^2$
$|AE| = 2\ br$
$|BE| = 4\ br$
$\Rightarrow S_1 = ?$

A) 12 B) 6 C) $4\sqrt{3}$ D) $3\sqrt{3}$ E) $2\sqrt{3}$

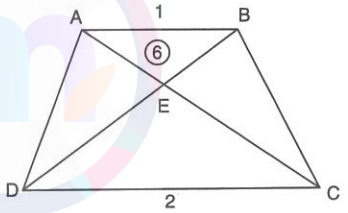
11.



$[AB] // [DC]$
$S_2 = 4\ br^2$
$S_3 = 8\ br^2$
$\Rightarrow S_1 = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{2}$ E) $4\sqrt{3}$

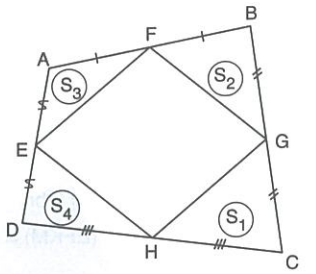
12.



$[AB] // [DC]$
$|AB| = 1\ br$
$|DC| = 2\ br$
$A(ABE) = 6\ br^2$
$\Rightarrow A(ABCD) = ?$

A) 18 B) 24 C) 27 D) 36 E) 54

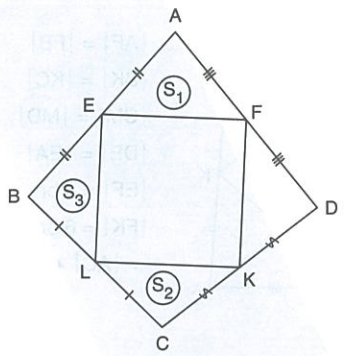
13.



$|AF| = |FB|$
$|BG| = |GC|$
$|CH| = |HD|$
$|DE| = |EA|$
$S_2 = 12\ br^2$
$S_3 = 8\ br^2$
$S_4 = 14\ br^2$
$\Rightarrow S_1 = ?$

A) 18 B) 20 C) 24 D) 26 E) 30

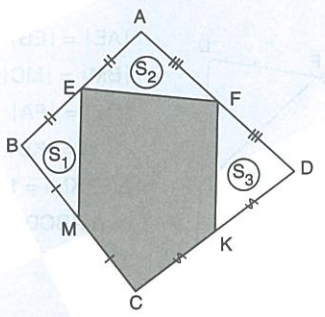
14.



$|AE| = |EB|$
$|BL| = |LC|$
$|CK| = |KD|$
$|DF| = |FA|$
$S_1 = 10\ br^2$
$S_2 = 14\ br^2$
$S_3 = 10\ br^2$
$\Rightarrow A(EFKL) = ?$

A) 12 B) 24 C) 36 D) 48 E) 96

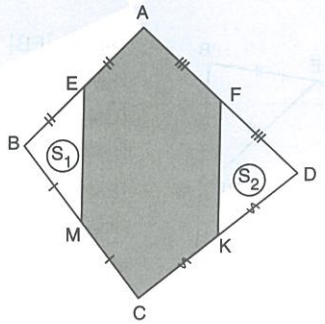
15.



$|AE| = |EB|$
$|BM| = |MC|$
$|CK| = |KD|$
$|DF| = |FA|$
$S_1 = 6\ br^2$
$S_2 = 4\ br^2$
$S_3 = 8\ br^2$
$\Rightarrow A(EFKCM) = ?$

A) 14 B) 28 C) 30 D) 38 E) 40

16.



$|AE| = |EB|$
$|BM| = |MC|$
$|CK| = |KD|$
$|DF| = |FA|$
$S_1 = 5\ br^2$
$S_2 = 7\ br^2$
$\Rightarrow$ Taralı Alan = ?
Shaded Area = ?

A) 12 B) 24 C) 36 D) 48 E) 60

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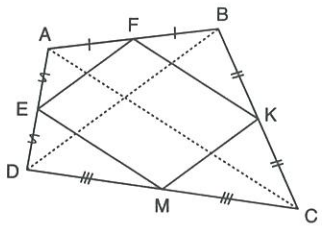
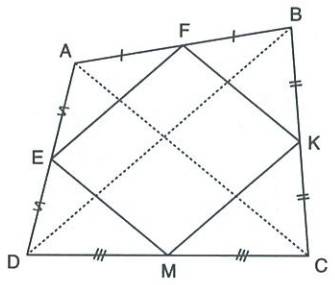
1.



$|AF| = |FB|$
$|BK| = |KC|$
$|CM| = |MD|$
$|DE| = |EA|$
$|AC| = 5$ br
$|BD| = 6$ br
$\Rightarrow$ Ç(EFKM) = ?

A) 6 B) 11 C) 22 D) 44 E) 54

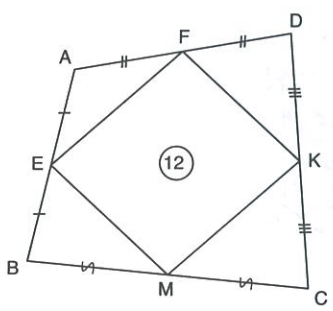
2.



$|AF| = |FB|$
$|BK| = |KC|$
$|CM| = |MD|$
$|DE| = |EA|$
$|EF| = 4$ br
$|FK| = 6$ br
$\Rightarrow |AC| + |BD| = ?$

A) 60 B) 40 C) 30 D) 20 E) 10

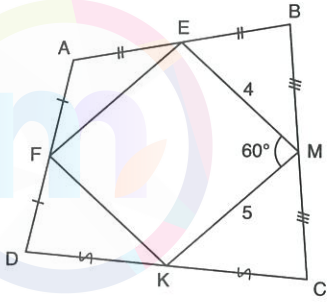
3.



$|AE| = |EB|$
$|BM| = |MC|$
$|DF| = |FA|$
$|CK| = |KD|$
$A(EFKM) = 12$ br^2
$\Rightarrow$ A(ABCD) = ?

A) 48 B) 24 C) 12 D) 8 E) 6

4.



$|AE| = |EB|$
$|BM| = |MC|$
$|CK| = |KD|$
$|DF| = |FA|$
$|EM| = 4$ br
$|KM| = 5$ br
$m(\widehat{KME}) = 60°$
$\Rightarrow$ A(ABCD) = ?

A) $5\sqrt{3}$ B) 10 C) $10\sqrt{3}$ D) $15\sqrt{3}$ E) $20\sqrt{3}$

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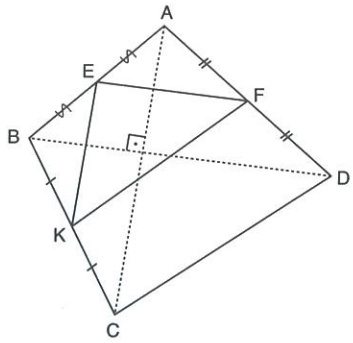
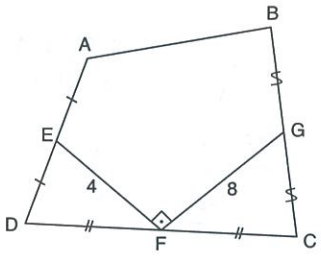
5.



$|AF| = |FD|$
$|AE| = |EB|$
$|BK| = |KC|$
$[AC] \perp [BD]$
$|AC| = 4\sqrt{2}$ br
$|BD| = 4$ br
$\Rightarrow$ A(EFK) = ?

A) $2\sqrt{2}$ B) 4 C) $4\sqrt{2}$ D) 8 E) $8\sqrt{2}$

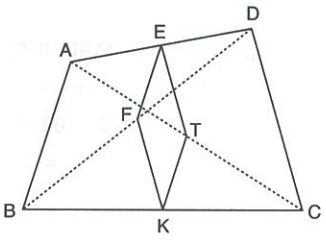
6.



$[EF] \perp [FG]$
$|AE| = |ED|$
$|DF| = |FC|$
$|CG| = |GB|$
$|EF| = 4$ br
$|FG| = 8$ br
$\Rightarrow$ A(ABCD) = ?

A) 16 B) 32 C) 36 D) 48 E) 64

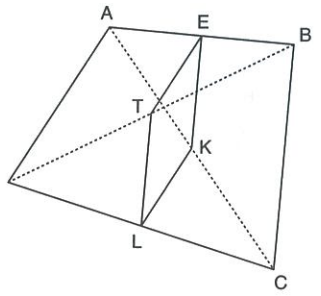
7.



$|AE| = |ED|$
$|BK| = |KC|$
$|AT| = |TC|$
$|BF| = |FD|$
$|AB| = 10$ br
$|DC| = 8$ br
$\Rightarrow$ Ç(EFKT) = ?

A) 8 B) 9 C) 16 D) 18 E) 24

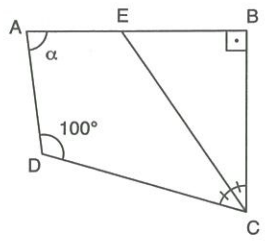
8.



$|AE| = |EB|$
$|DL| = |LC|$
$|AK| = |KC|$
$|BT| = |TD|$
$|TL| = 6$ br
$|LK| = 4$ br
$\Rightarrow |AD| + |BC| = ?$

A) 2 B) 4 C) 6 D) 10 E) 20

9.



$[AB] \perp [BC]$

$2|EB| = \sqrt{3}\,|EC|$

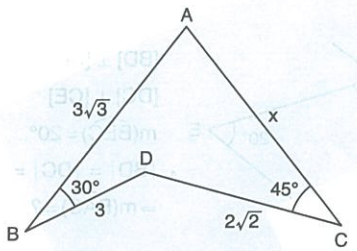
$m(\widehat{DCE}) = m(\widehat{ECB})$

$m(\widehat{ADC}) = 100°$

$\Rightarrow m(\widehat{DAB}) = \alpha = ?$

A) 50 B) 70 C) 80 D) 110 E) 150

10.



$|AB| = 3\sqrt{3}$ br

$|BD| = 3$ br

$|DC| = 2\sqrt{2}$ br

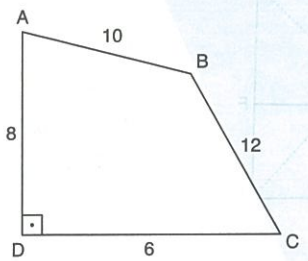
$m(\widehat{ABD}) = 30°$

$m(\widehat{ACD}) = 45°$

$\Rightarrow |AC| = x = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $2+\sqrt{5}$ D) $3+\sqrt{5}$ E) 6

11.



$[AD] \perp [DC]$

$|AD| = 8$ br

$|DC| = 6$ br

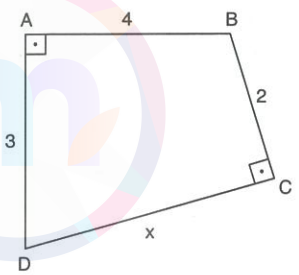
$|BC| = 12$ br

$|AB| = 10$ br

$\Rightarrow A(ABCD) = ?$

A) 16 B) 32 C) 48 D) 72 E) 86

12.



$[AD] \perp [AB]$

$[BC] \perp [DC]$

$|AD| = 3$ br

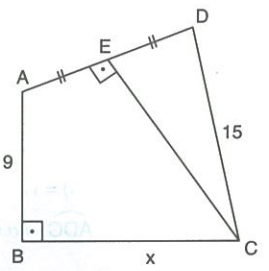
$|AB| = 4$ br

$|BC| = 2$ br

$\Rightarrow |DC| = x = ?$

A) $2\sqrt{3}$ B) $3\sqrt{2}$ C) 4 D) $\sqrt{21}$ E) $\sqrt{29}$

13.



$[AD] \perp [EC]$

$[AB] \perp [BC]$

$|AB| = 9$ br

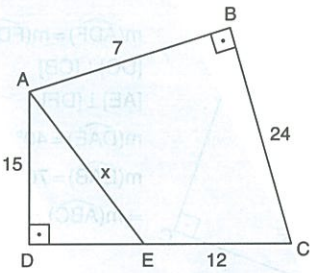
$|AE| = |ED|$

$|CD| = 15$ br

$\Rightarrow |BC| = x = ?$

A) 9 B) 12 C) 15 D) 17 E) 25

14.



$[AB] \perp [BC]$

$[AD] \perp [DC]$

$|AD| = 15$ br

$|AB| = 7$ br

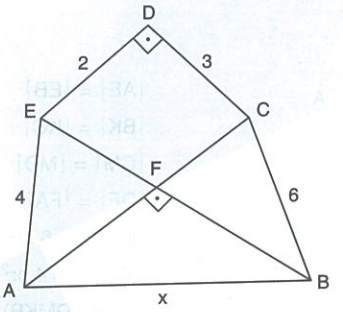
$|BC| = 24$ br

$|EC| = 12$ br

$\Rightarrow |AE| = x = ?$

A) 8 B) 12 C) 17 D) 20 E) 25

15.



$[ED] \perp [DC]$

$[AC] \perp [EB]$

$|DE| = 2$ br

$|EA| = 4$ br

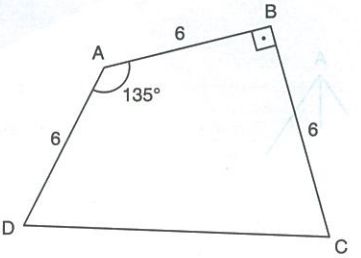
$|BC| = 6$ br

$|CD| = 3$ br

$\Rightarrow |AB| = x = ?$

A) 4 B) $3\sqrt{3}$ C) 6 D) $\sqrt{39}$ E) 7

16.



$[AB] \perp [BC]$

$m(\widehat{DAB}) = 135°$

$|AB| = 6$ br

$|AD| = 6$ br

$|BC| = 6$ br

$\Rightarrow A(ABCD) = ?$

A) $18(\sqrt{3}+1)$ B) $18(\sqrt{2}+1)$ C) $9(\sqrt{3}+1)$ D) $9(\sqrt{2}+1)$ E) $9\sqrt{2}$

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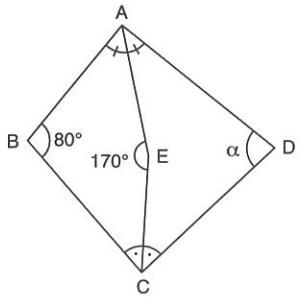
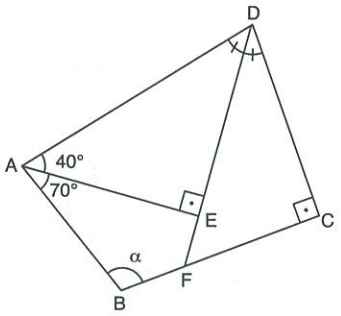
1.



$m(\widehat{D}) < 100°$
$m(\widehat{BAE}) = m(\widehat{EAD})$
$m(\widehat{BCE}) = m(\widehat{ECD})$
$m(\widehat{ABC}) = 80°$
$m(\widehat{AEC}) = 170°$
$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 90 B) 80 C) 70 D) 60 E) 50

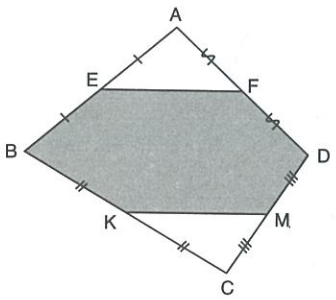
2.



$m(\widehat{ADF}) = m(\widehat{FDC})$
$[DC] \perp [CB]$
$[AE] \perp [DF]$
$m(\widehat{DAE}) = 40°$
$m(\widehat{EAB}) = 70°$
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 80 B) 70 C) 60 D) 50 E) 40

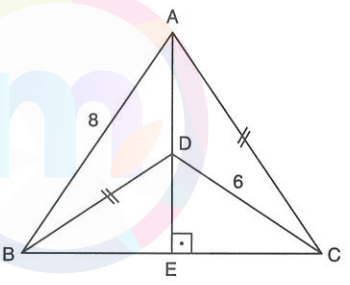
3.



$|AE| = |EB|$
$|BK| = |KC|$
$|CM| = |MD|$
$|DF| = |FA|$
$A(AEF) = 6\ br^2$
$A(KMC) = 4\ br^2$
$\Rightarrow A(EFDMKB) = ?$

A) 45 B) 30 C) 20 D) 15 E) 10

4.



$[AE] \perp [BC]$
$|AC| = |BD|$
$|DC| = 6\ br$
$|AB| = 8\ br$
$\Rightarrow |AC| = x = ?$

A) $10\sqrt{2}$ B) 10 C) $5\sqrt{2}$ D) 5 E) 4

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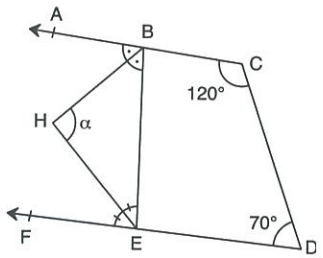
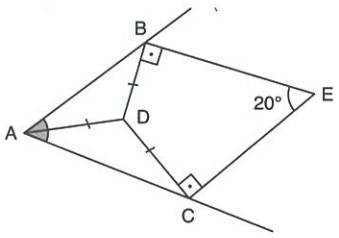
5.



$m(\widehat{ABH}) = m(\widehat{HBE})$
$m(\widehat{FEH}) = m(\widehat{HEB})$
$m(\widehat{ACD}) = 120°$
$m(\widehat{CDF}) = 70°$
$\Rightarrow m(\widehat{BHE}) = \alpha = ?$

A) 85 B) 95 C) 100 D) 105 E) 110

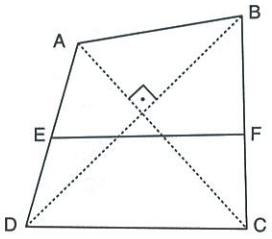
6.



$[BD] \perp [BE]$
$[DC] \perp [CE]$
$m(\widehat{BEC}) = 20°$
$|BD| = |DC| = |AD|$
$\Rightarrow m(\widehat{BAC}) = ?$

A) 160 B) 120 C) 100 D) 80 E) 40

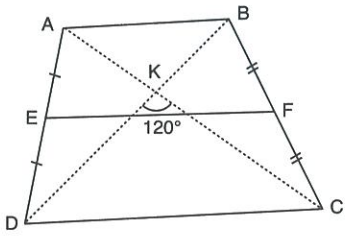
7.



$|AE| = |ED|$
$|BF| = |FC|$
$[AC] \perp [BD]$
$|AC| = 6\ br$
$|BD| = 12\ br$
$\Rightarrow |EF| = ?$

A) $3\sqrt{5}$ B) $6\sqrt{5}$ C) $9\sqrt{2}$ D) $12\sqrt{5}$ E) $15\sqrt{2}$

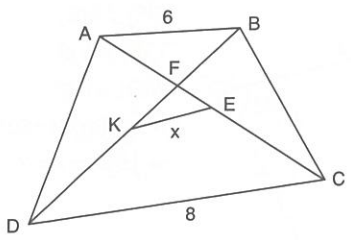
8.



$|AE| = |ED|$
$|BF| = |FC|$
$m(\widehat{DKC}) = 120°$
$|AC| = 8\ br$
$|BD| = 8\ br$
$\Rightarrow |EF| = ?$

A) $4\sqrt{3}$ B) 6 C) $8\sqrt{2}$ D) $8\sqrt{3}$ E) 10

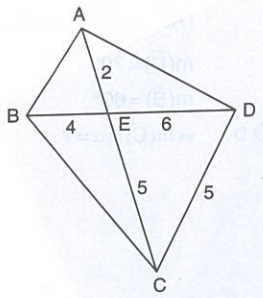
9.



$|KB| = |DK|$
$|AE| = |EC|$
$|AB| = 6$ br
$|DC| = 8$ br
$x \in Z$
$|KE| = x$
$\Rightarrow \sum x = ?$

A) 18 B) 20 C) 21 D) 22 E) 24

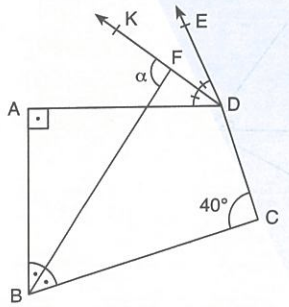
10.



$|AE| = 2$ br
$|BE| = 4$ br
$|CE| = 5$ br
$|CD| = 5$ br
$|DE| = 6$ br
$\Rightarrow A(ABCD) = ?$

A) 14 B) 18 C) 20 D) 28 E) 40

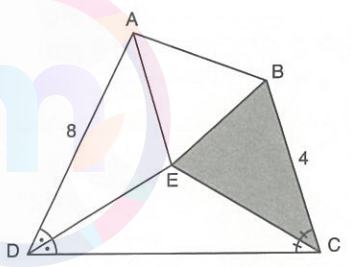
11.



$m(\widehat{ADK}) = m(\widehat{KDE})$
$m(\widehat{ABF}) = m(\widehat{FBC})$
$m(\widehat{BCE}) = 40°$
$[AD] \perp [AB]$
$\Rightarrow m(\widehat{KFB}) = \alpha = ?$

A) 115 B) 65 C) 50 D) 40 E) 25

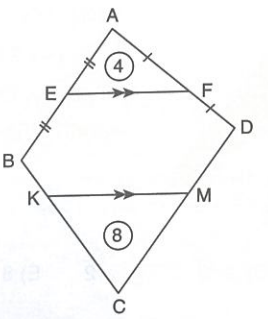
12.



$m(\widehat{ADE}) = m(\widehat{EDC})$
$m(\widehat{DCE}) = m(\widehat{ECB})$
$|AD| = 8$ br
$|BC| = 4$ br
$A(AED) = 8\sqrt{3}$ br^2
$\Rightarrow A(EBC) = ?$

A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $6\sqrt{3}$ D) 12 E) $12\sqrt{3}$

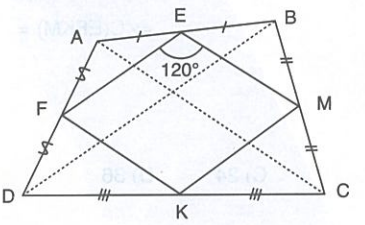
13.



$[EF] // [KM]$
$|AE| = |BE|$
$|AF| = |FD|$
$|KC| = 2|BK|$
$A(AEF) = 4$ br^2
$A(KMC) = 8$ br^2
$\Rightarrow A(ABCD) = ?$

A) 12 B) 16 C) 24 D) 30 E) 34

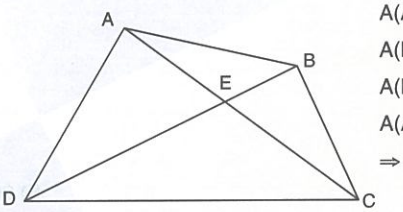
14.



$|AE| = |EB|$
$|BM| = |MC|$
$|CK| = |KD|$
$|DF| = |FA|$
$m(\widehat{FEM}) = 120°$
$|AC| = 8$ br
$|BD| = 6$ br
$\Rightarrow A(EFKM) = ?$

A) 3 B) $3\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) 12

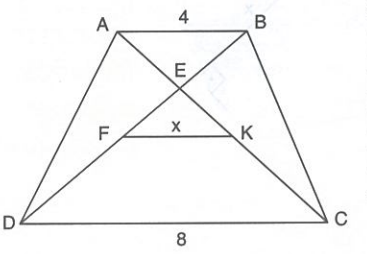
15.



$A(AEB) = S - 2$
$A(BEC) = S - 1$
$A(DEC) = 3S - 1$
$A(AED) = S + 1$
$\Rightarrow A(ABCD) = ?$

A) 9 B) 12 C) 15 D) 16 E) 18

16.



$x \in Z^+$
$|AK| = |KC|$
$|BF| = |FD|$
$|AB| = 4$ br
$|DC| = 8$ br
$\Rightarrow \min(|FK|) = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

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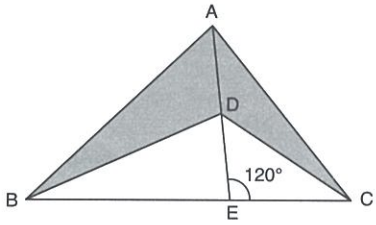
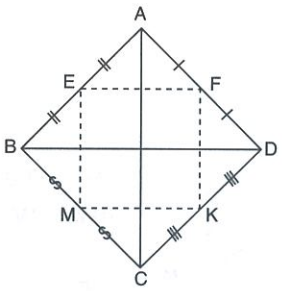
1.



$|AD| = 2$ br
$|BC| = 4\sqrt{2}$ br
$m(\widehat{AEC}) = 120°$
$\Rightarrow A(ABDC) = ?$

A) $2\sqrt{2}$ B) 4 C) $2\sqrt{6}$ D) $4\sqrt{2}$ E) 8

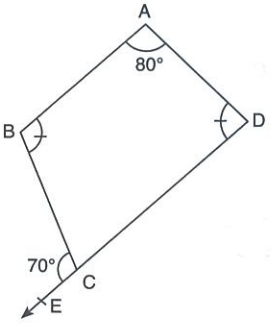
2.



$|BE| = |EA|$
$|AF| = |FD|$
$|BM| = |MC|$
$|CK| = |KD|$
$|AC| + |BD| = 12$ br
$\Rightarrow$ Ç(EFKM) = ?

A) 6 B) 12 C) 24 D) 36 E) 48

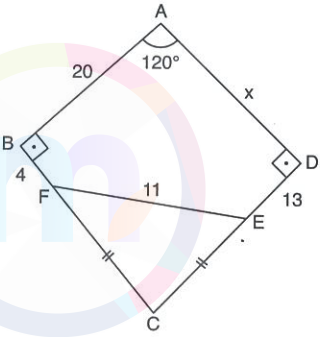
3.



$m(\widehat{A}) = 80°$
$m(\widehat{BCE}) = 70°$
$m(\widehat{B}) = m(\widehat{D})$
$\Rightarrow m(\widehat{ABC}) = ?$

A) 65 B) 70 C) 80 D) 85 E) 90

4.



$|AB| = 20$ br
$|BF| = 4$ br
$|DE| = 13$ br
$|FE| = 11$ br
$|FC| = |CE|$
$m(\widehat{A}) = 120°$
$\Rightarrow |AD| = x = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

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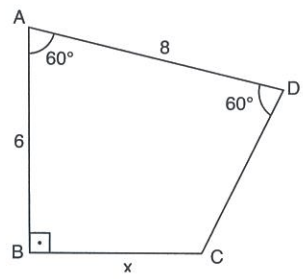
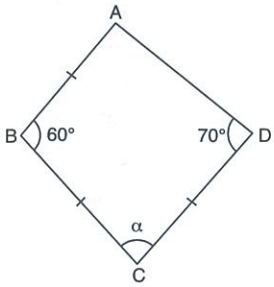
5.



$[AB] \perp [BC]$
$|AB| = 6$ br
$|AD| = 8$ br
$m(\widehat{A}) = m(\widehat{D}) = 60°$
$\Rightarrow |BC| = x = ?$

A) $\sqrt{3}$ B) $2\sqrt{3}$ C) $3\sqrt{3}$ D) $4\sqrt{3}$ E) $6\sqrt{3}$

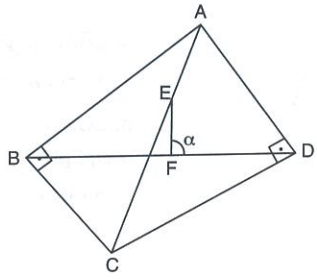
6.



$|AB| = |BC| = |CD|$
$m(\widehat{D}) = 70°$
$m(\widehat{B}) = 60°$
$\Rightarrow m(\widehat{C}) = \alpha = ?$

A) 100 B) 80 C) 60 D) 50 E) 40

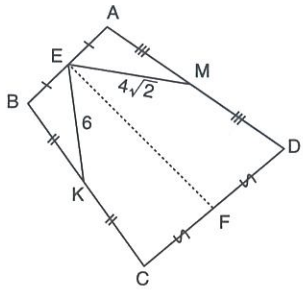
7.



$[AB] \perp [BC]$
$[AD] \perp [DC]$
$|BF| = |FD|$
$|AE| = |EC|$
$\Rightarrow m(\widehat{EFD}) = \alpha = ?$

A) 120 B) 110 C) 105 D) 100 E) 90

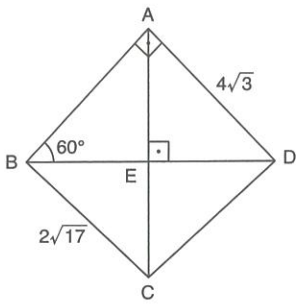
8.



$|AE| = |EB|$
$|BK| = |KC|$
$|CF| = |FD|$
$|DM| = |MA|$
$|EM| = 4\sqrt{2}$ br
$|EK| = 6$ br
$m(\widehat{MEK}) = 135°$
$\Rightarrow |EF| = ?$

A) $2\sqrt{5}$ B) $12\sqrt{2}$ C) 18 D) 24 E) 48

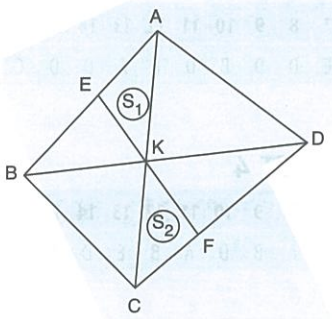
9.



$[BA] \perp [AD]$
$[AE] \perp [BD]$
$m(\widehat{ABD}) = 60°$
$|AD| = 4\sqrt{3}$
$|BC| = 2\sqrt{17}$
$\Rightarrow |CD| = x = ?$

A) 10 B) $\sqrt{79}$ C) 8 D) $2\sqrt{15}$ E) 6

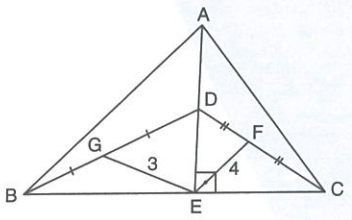
10.



$|AE| = |EB|$
$3|CF| = 2|FD|$
$A(AKD) = 5\ br^2$
$A(BKC) = 12\ br^2$
$A(AEK) = S_1$
$A(KFC) = S_2$
$\Rightarrow S_1 \cdot S_2 = ?$

A) 9 B) 10 C) 12 D) 18 E) 24

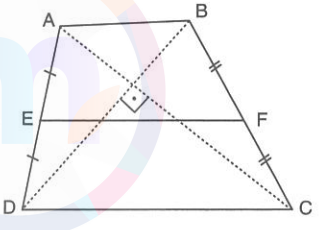
11.



$[AE] \perp [BC]$
$|BG| = |GD|$
$|DF| = |FC|$
$|GE| = 3\ br$
$|FE| = 4\ br$
$|AC| = a$
$|AB| = b$
$\Rightarrow a^2 - b^2 = ?$

A) 5 B) $2\sqrt{7}$ C) $4\sqrt{3}$ D) 18 E) 28

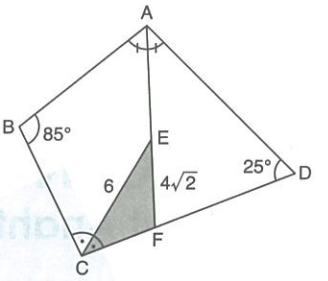
12.



$[AC] \perp [BD]$
$|AE| = |ED|$
$|BF| = |FC|$
$|AC| = 15\ br$
$|BD| = 20\ br$
$\Rightarrow |EF| = ?$

A) 50 B) 25 C) 20 D) $\frac{25}{2}$ E) 12

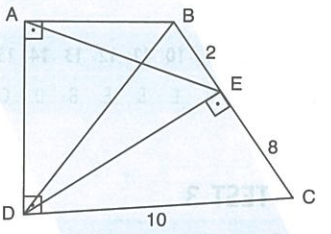
13.



$m(\widehat{BCE}) = m(\widehat{ECD})$
$m(\widehat{BAF}) = m(\widehat{FAD})$
$m(\widehat{ABC}) = 85°$
$m(\widehat{ADC}) = 25°$
$|EF| = 4\sqrt{2}\ br$
$|CE| = 6\ br$
$\Rightarrow A(ECF) = ?$

A) 6 B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) 12 E) $12\sqrt{2}$

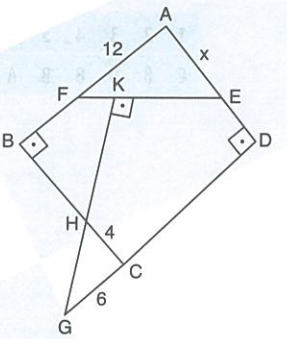
14.



$[AB] \perp [AD]$
$[AD] \perp [DC]$
$[DE] \perp [BC]$
$|BE| = 2\ br$
$|EC| = 8\ br$
$|DC| = 10\ br$
$\Rightarrow |AB| = ?$

A) 1 B) 2 C) $2\sqrt{3}$ D) 6 E) 8

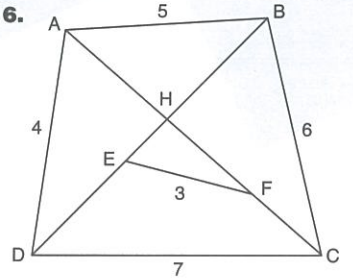
15.



$[GK] \perp [FE]$
$[AB] \perp [BC]$
$[AD] \perp [DG]$
$|AF| = 12\ br$
$|HC| = 4\ br$
$|GC| = 6\ br$
$\Rightarrow |AE| = x = ?$

A) 18 B) 16 C) 12 D) 8 E) 6

16.



$|AF| = |FC|$
$|BE| = |ED|$
$|EF| = 3\ br$
$|AD| = 4\ br$
$|BC| = 6\ br$
$|AB| = 5\ br$
$|DC| = 7\ br$
$\Rightarrow |AC|^2 + |BD|^2 = ?$

A) 90 B) 81 C) 80 D) 78 E) 72

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PUZA YAYINLARI
PUZA YAYINLARI

DÖRTGENLER QUADRILATERALS

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	C	A	C	D	D	D	E	B	E	B	E	B	D	C	B

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	D	C	A	E	E	D	D	B	D	E	A	D	D	C

TEST 3

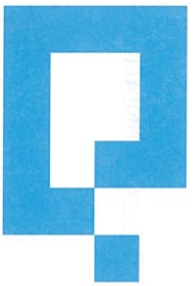
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	B	E	A	E	D	E	A	C	D	D	B	C	D	B

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	B	C	A	D	A	A	B	D	A	B	E	D	C	C

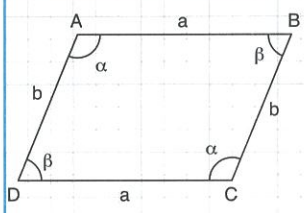
TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	D	B	B	A	E	A	A	C	E	D	B	B	A	A



PARALELKENAR
PARALLELOGRAM

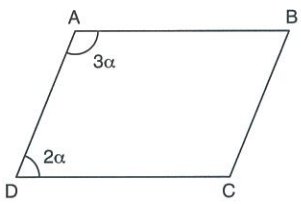
ÖZELLİK | Property 1



ABCD paralelkenar
ABCD parallelogram
[AB] // [DC]
[AD] // [BC]

$\alpha + \beta = 180°$

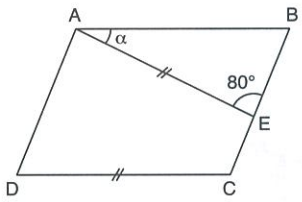
1.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow m(\widehat{C}) = ?$

108

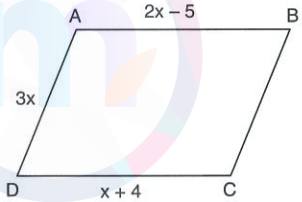
2.



ABCD paralelkenar
ABCD parallelogram
$|AE| = |DC|$
$\Rightarrow \alpha = ?$

20

3.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow |BC| = ?$

27

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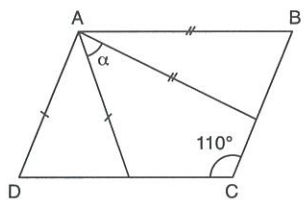
PUZA YAYINLARI

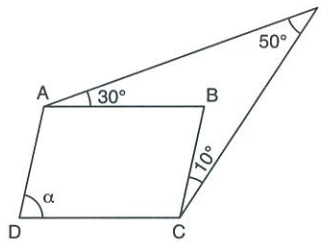
4.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow \alpha = ?$

30

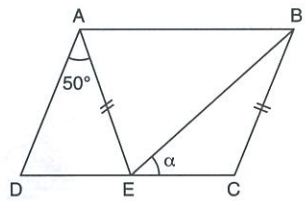
5.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow \alpha = ?$

90

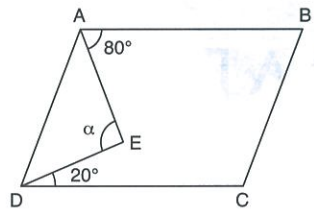
6.



ABCD paralelkenar
ABCD parallelogram
$|BE| = |DC|$
$|BC| = |AE|$
$\Rightarrow \alpha = ?$

50

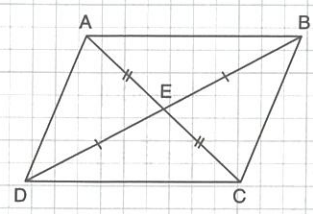
7.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow \alpha = ?$

100

ÖZELLİK|Property 2



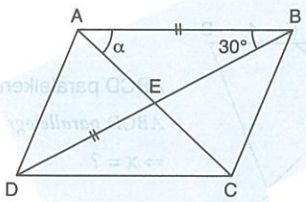
ABCD paralelkenar

ABCD parallelogram

$|AE| = |EC|$

$|DE| = |EB|$

1.



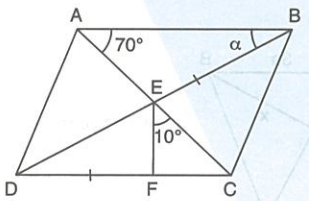
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow \alpha = ?$

75

2.



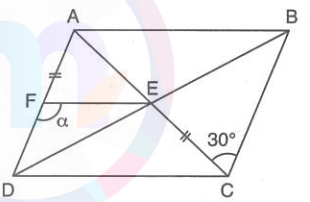
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow \alpha = ?$

20

3.



ABCD paralelkenar

ABCD parallelogram

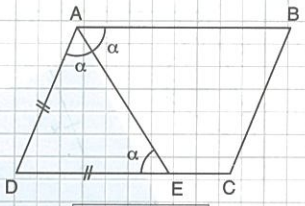
$\Rightarrow \alpha = ?$

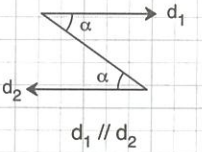
105

ÖZELLİK|Property 3

ABCD paralelkenar

ABCD parallelogram

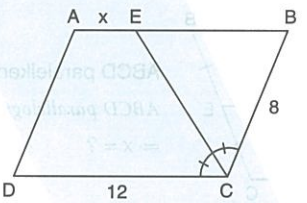




$d_1 // d_2$

$|AD| = |DE|$

1.



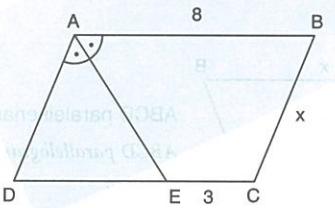
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow x = ?$

4

2.



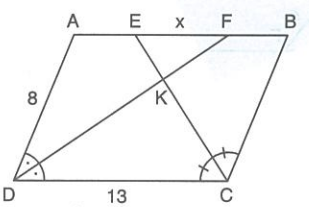
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow x = ?$

5

3.



ABCD paralelkenar

ABCD parallelogram

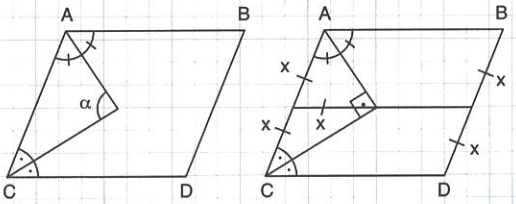
$\Rightarrow x = ?$

3

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

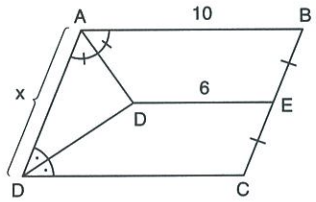
ÖZELLİK|Property 4

ABCD paralelkenar | *ABCD parallelogram*



$\alpha = 90°$

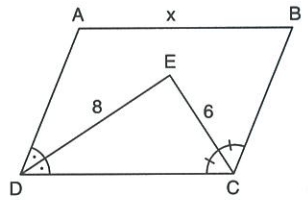
1.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

8

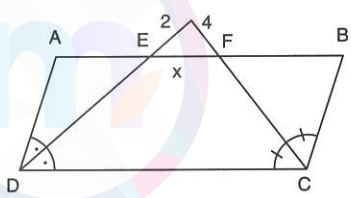
2.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

10

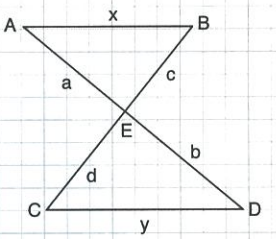
3.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

$2\sqrt{5}$

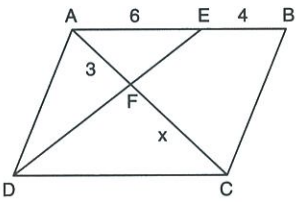
ÖZELLİK|Property 5



[AB] // [CD]

$$\frac{x}{y} = \frac{a}{b} = \frac{c}{d}$$

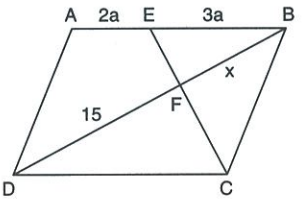
1.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

5

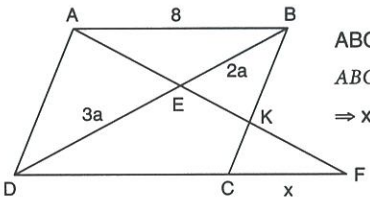
2.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

9

3.

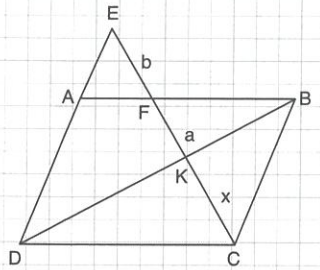


ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

4

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 6

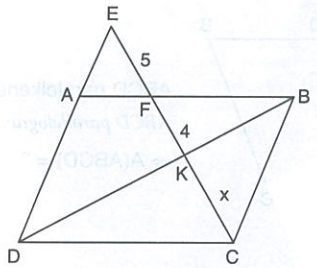


ABCD paralelkenar

ABCD parallelogram

$x^2 = a(a + b)$

1.



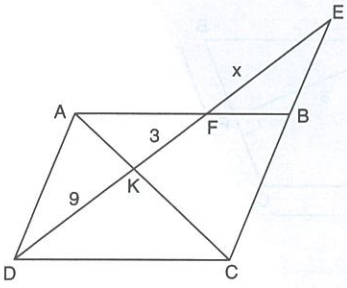
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow x = ?$

6

2.



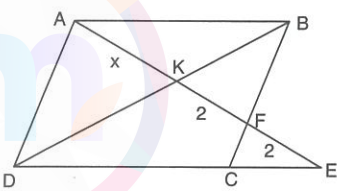
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow x = ?$

24

3.



ABCD paralelkenar

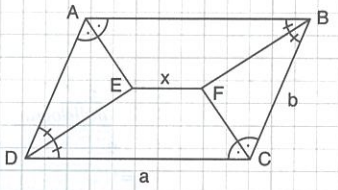
ABCD parallelogram

$\Rightarrow x = ?$

$2\sqrt{2}$

PUZA YAYINLARI

ÖZELLİK|Property 7

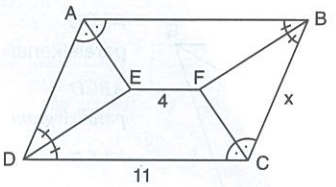


ABCD paralelkenar

ABCD parallelogram

$x = a - b$

1.



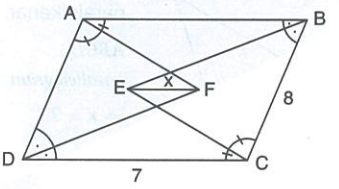
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow x = ?$

7

2.



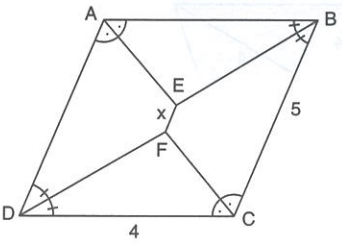
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow x = ?$

1

3.



ABCD paralelkenar

ABCD parallelogram

$\Rightarrow x = ?$

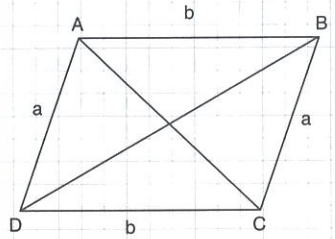
1

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

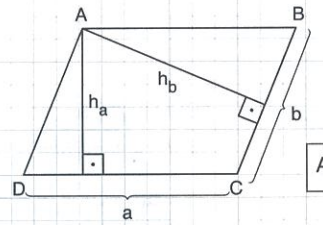
ÖZELLİK|Property 8



ABCD paralelkenar
ABCD parallelogram
$|AC| = e$
$|BD| = f$

$$2(a^2 + b^2) = e^2 + f^2$$

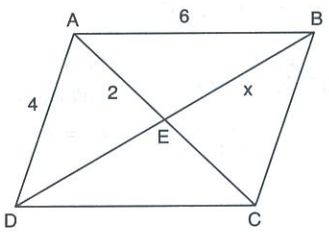
ÖZELLİK|Property 9



ABCD paralelkenar
ABCD parallelogram

$$A(ABCD) = a \cdot h_a = b \cdot h_b$$

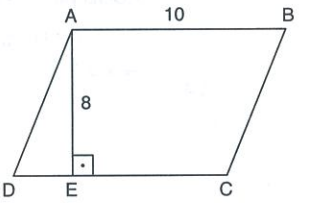
1.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

$\sqrt{22}$

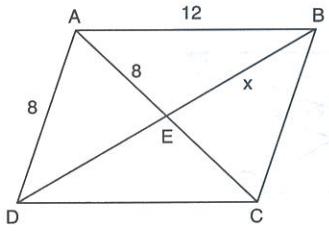
1.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow A(ABCD) = ?$

80

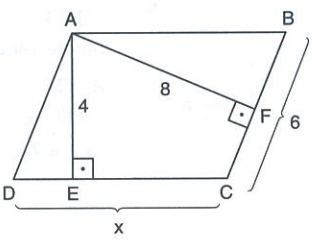
2.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

$2\sqrt{10}$

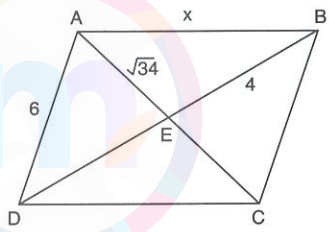
2.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

12

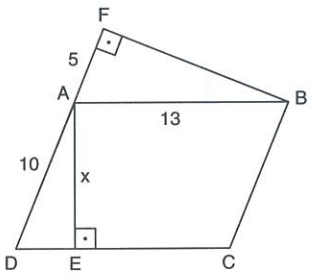
3.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

8

3.

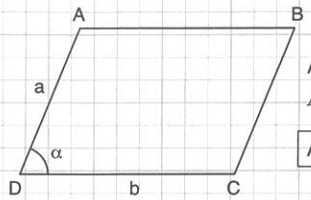


ABCD paralelkenar
ABCD parallelogram
$\Rightarrow x = ?$

$\frac{120}{13}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

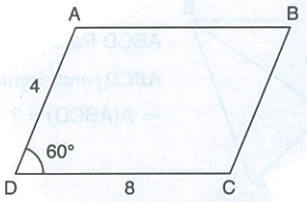
ÖZELLİK|Property 10



ABCD paralelkenar
ABCD parallelogram

$A(ABCD) = a \cdot b \cdot \sin\alpha$

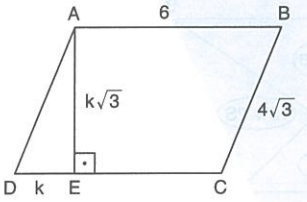
1.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow A(ABCD) = ?$

$16\sqrt{3}$

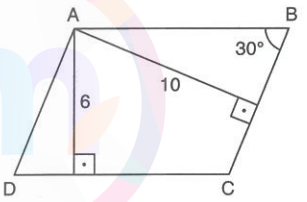
2.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow A(ABCD) = ?$

36

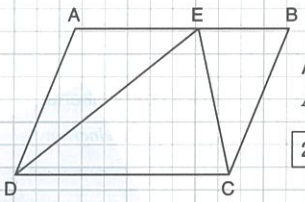
3.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow A(ABCD) = ?$

120

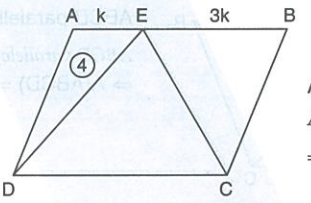
ÖZELLİK|Property 11



ABCD paralelkenar
ABCD parallelogram

$2 \cdot A(EDC) = A(ABCD)$

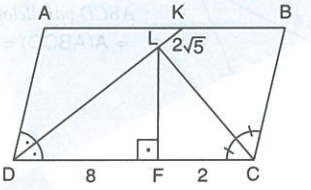
1.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow A(ABCD) = ?$

32

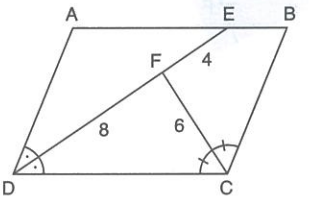
2.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow A(ABCD) = ?$

60

3.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow A(ABCD) = ?$

72

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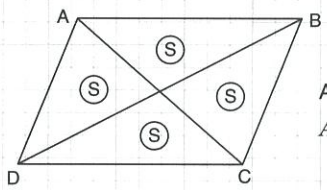
PUZA YAYINLARI
PUZA YAYINLARI

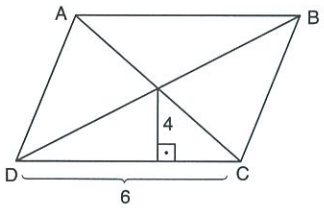
ÖZELLİK|Property 12



ABCD paralelkenar

ABCD parallelogram

1.



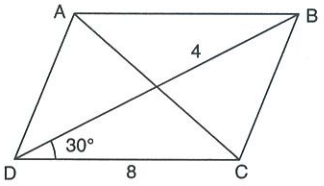
ABCD paralelkenar

ABCD parallelogram

⇒ A(ABCD) = ?

48

2.



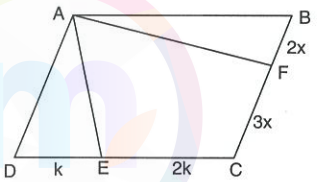
ABCD paralelkenar

ABCD parallelogram

⇒ A(ABCD) = ?

32

3.



ABCD paralelkenar

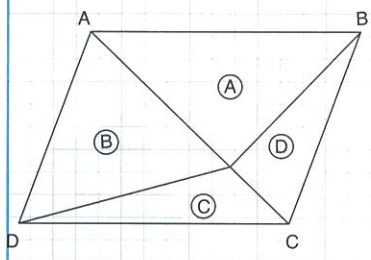
ABCD parallelogram

$\Rightarrow \frac{A(ABF)}{A(DAE)} = ?$

$\frac{6}{5}$

PUZA YAYINLARI

ÖZELLİK|Property 13

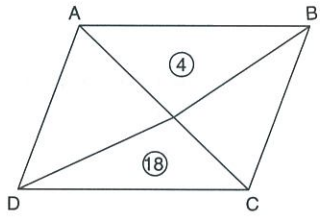


ABCD paralelkenar

ABCD parallelogram

A + C = B + D

1.



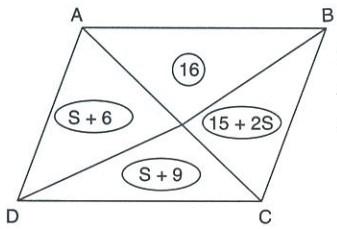
ABCD Paralelkenar

ABCD parallelogram

⇒ A(ABCD) = ?

44

2.



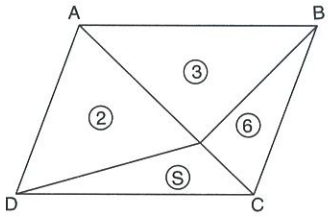
ABCD Paralelkenar

ABCD parallelogram

⇒ A(ABCD) = ?

54

3.



ABCD Paralelkenar

ABCD parallelogram

⇒ S = ?

5

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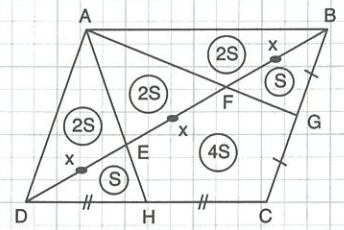
PUZA YAYINLARI

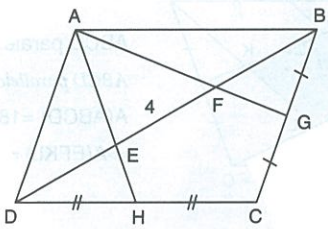
PUZA YAYINLARI

ÖZELLİK|Property 14



ABCD paralelkenar
ABCD parallelogram

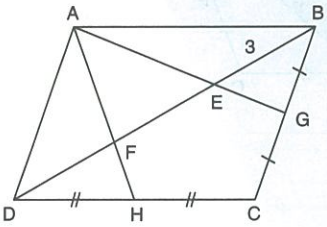
1.



ABCD paralelkenar
ABCD parallelogram
⇒ |BD| = ?

12

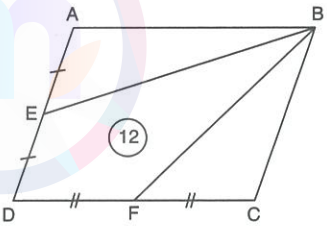
2.



ABCD paralelkenar
ABCD parallelogram
⇒ |ED| = ?

6

3.



ABCD paralelkenar
ABCD parallelogram
⇒ A(ABCD) = ?

24

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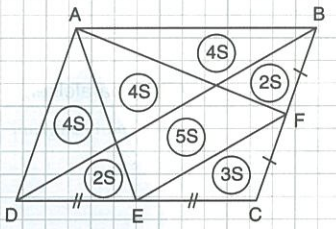
PUZA YAYINLARI

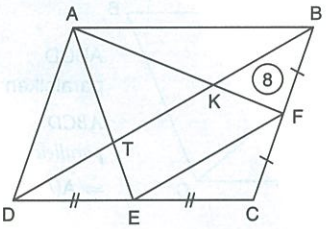
PUZA YAYINLARI

ÖZELLİK|Property 15



ABCD paralelkenar
ABCD parallelogram

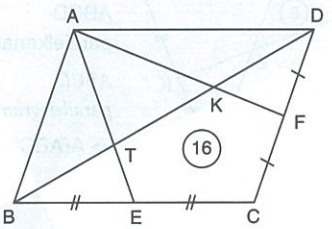
1.



ABCD paralelkenar
ABCD parallelogram
⇒ A(ABCD) = ?

96

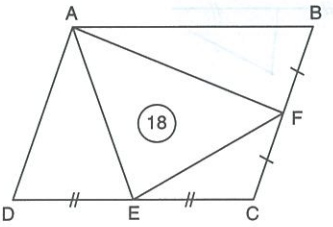
2.



ABCD paralelkenar
ABCD parallelogram
⇒ A(AKD) = ?

8

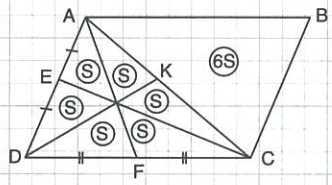
3.



ABCD paralelkenar
ABCD parallelogram
⇒ A(ABCD) = ?

48

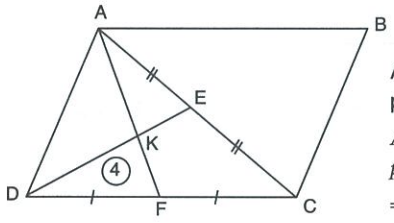
ÖZELLİK|Property 16



ABCD paralelkenar

ABCD parallelogram

1.



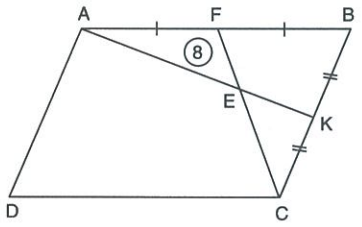
ABCD paralelkenar

ABCD parallelogram

⇒ A(ABCD) = ?

48

2.



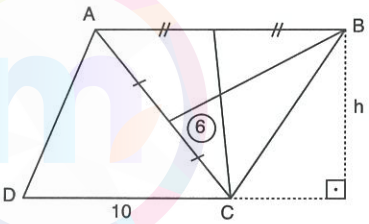
ABCD paralelkenar

ABCD parallelogram

⇒ A(AECD) = ?

64

3.



ABCD paralelkenar

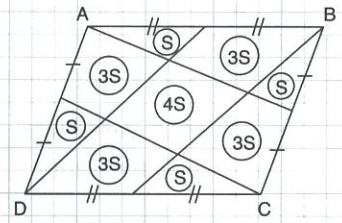
ABCD parallelogram

|DC| = 10 br

⇒ h = ?

7,2

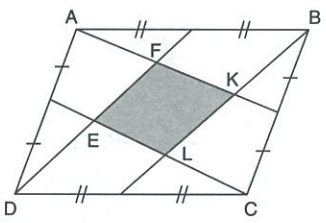
ÖZELLİK|Property 17



ABCD paralelkenar

ABCD parallelogram

1.



ABCD paralelkenar

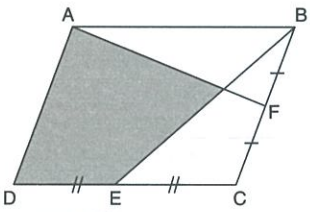
ABCD parallelogram

A(ABCD) =180 br^2

⇒A(EFKL) = ?

100

2.



ABCD paralelkenar

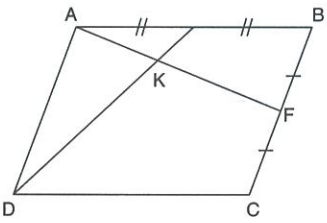
ABCD parallelogram

A(AECD) = 55 br^2?

⇒ A(ABCD) = ?

100

3.



ABCD paralelkenar

ABCD parallelogram

$\Rightarrow \frac{A(ADK)}{A(EKFB)} = ?$

1

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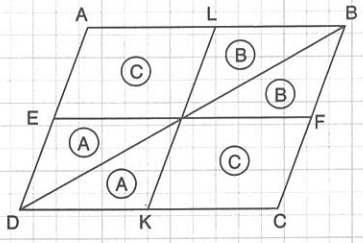
PUZA YAYINLARI
PUZA YAYINLARI

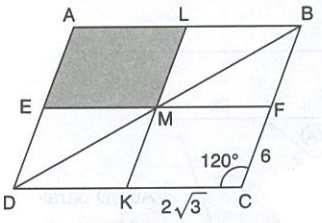
ÖZELLİK|Property 18



ABCD paralelkenar
ABCD parallelogram
[BD] köşegen
[BD] diagonal

[AB] // [EF] // [DC]
[AD] // [KL] // [BC]

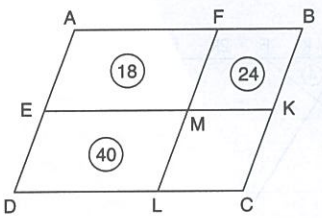
1.



ABCD paralelkenar
ABCD parallelogram
[EF] // [DC]
[KL] // [BC]
⇒ A(ALME) = ?

18

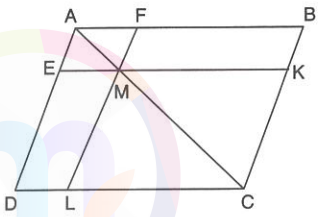
2.



ABCD paralelkenar
ABCD parallelogram
[EK] // [AB]
[FL] // [AD]
⇒ A(ABCD) = ?

100

3.

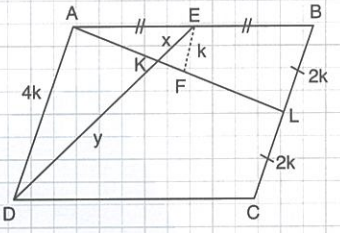


ABCD paralelkenar
ABCD parallelogram
[EK] // [AB]
[FL] // [AD]
[AC] köşegen
[AC] diagonal
$\Rightarrow \frac{A(FBKM)}{A(EMLD)} = ?$

1

PUZA YAYINLARI

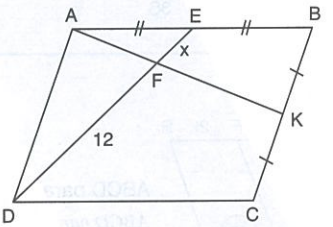
ÖZELLİK|Property 19



ABCD paralelkenar
ABCD parallelogram

$\frac{4k}{k} = \frac{y}{x}$

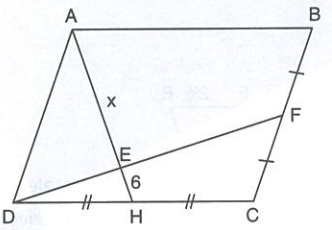
1.



ABCD paralelkenar
ABCD parallelogram
⇒ |EF| = x = ?

3

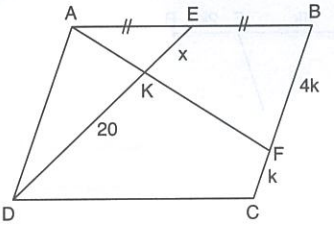
2.



ABCD paralelkenar
ABCD parallelogram
⇒ |AE| = x = ?

24

3.



ABCD paralelkenar
ABCD parallelogram
⇒ |EK| = x = ?

8

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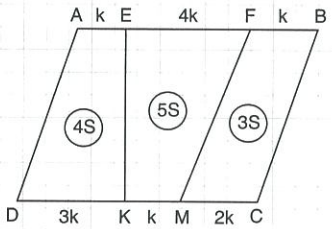
ÖZELLİK|Property 20

ABCD paralelkenar / *ABCD parallelogram*

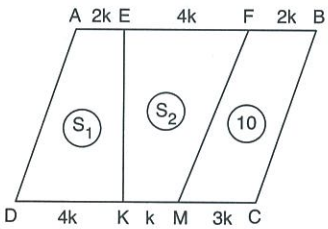


$3k + k = 4k$ → 4S

$4k + k = 5k$ → 5S

$k + 2k = 3k$ → 3S

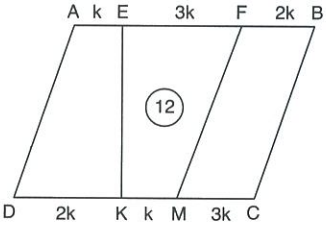
1.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow S_1 = ?$
$\Rightarrow S_2 = ?$

12, 10

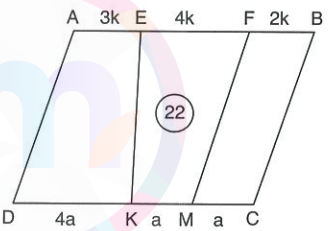
2.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow$ A(ABCD) = ?

36

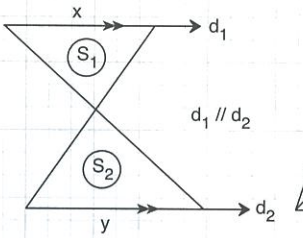
3.



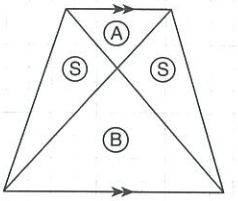
ABCD paralelkenar
ABCD parallelogram
$\Rightarrow$ A(ABCD) = ?

72

ÖZELLİK|Property 21

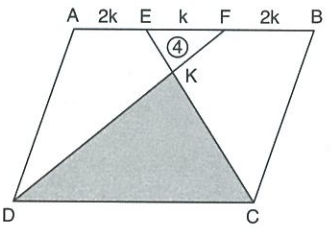


$\left(\frac{x}{y}\right)^2 = \frac{S_1}{S_2}$



$S \cdot S = A \cdot B$

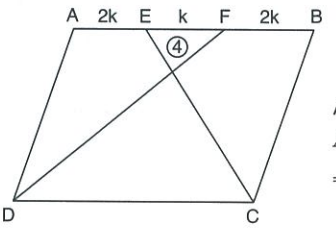
1.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow$ A(DKC) = ?

100

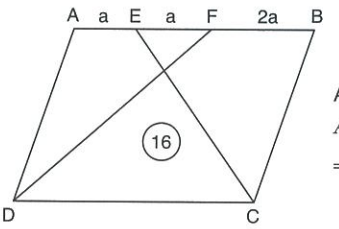
2.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow$ A(ABCD) = ?

240

3.



ABCD paralelkenar
ABCD parallelogram
$\Rightarrow$ A(ABCD) = ?

40

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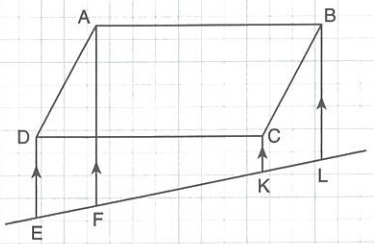
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 22

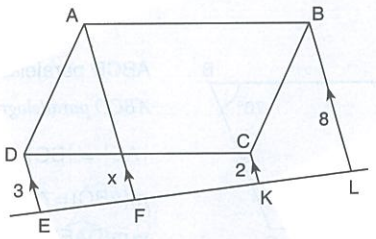


ABCD paralelkenar

ABCD parallelogram

$|AF| + |CK| = |DE| + |BL|$

1.



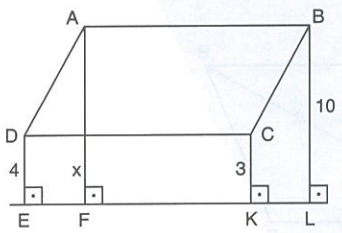
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow |AF| = x = ?$

9

2.



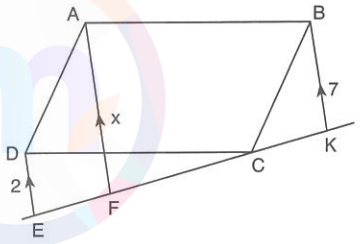
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow |AF| = x = ?$

11

3.



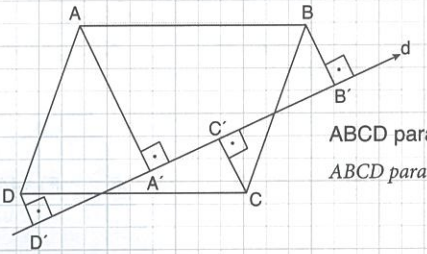
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow |AF| = x = ?$

9

ÖZELLİK|Property 23

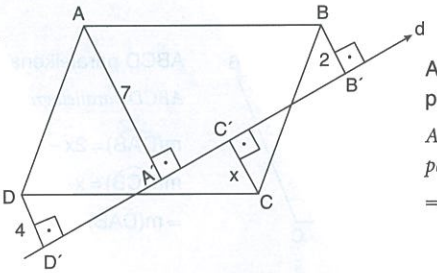


ABCD paralelkenar

ABCD parallelogram

$|AA´| - |CC´| = |DD´| + |BB´|$

1.



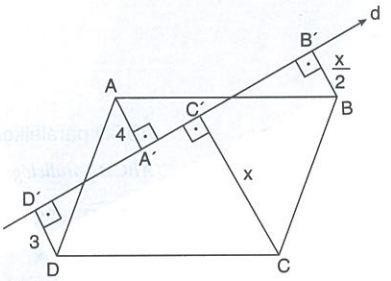
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow x = ?$

1

2.



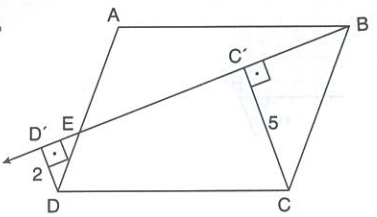
ABCD paralelkenar

ABCD parallelogram

$\Rightarrow x = ?$

14

3.



ABCD paralelkenar

ABCD parallelogram

$|EB| = 18$ br

$\Rightarrow$ A(ABE) = ?

27

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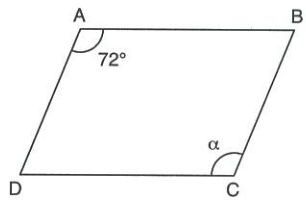
PUZA YAYINLARI
PUZA YAYINLARI

1.



ABCD paralelkenar

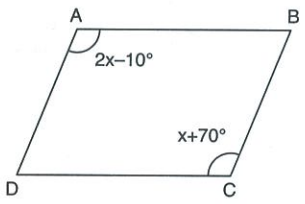
ABCD parallelogram

$m(\widehat{DAB}) = 72°$

$\Rightarrow m(\widehat{DCB}) = \alpha = ?$

A) 18 B) 36 C) 72 D) 108 E) 144

2.



ABCD paralelkenar

ABCD parallelogram

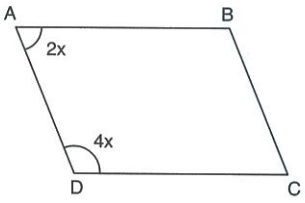
$m(\widehat{DAB}) = 2x - 10°$

$m(\widehat{DCB}) = x + 70°$

$\Rightarrow m(\widehat{DAB}) = ?$

A) 10 B) 30 C) 80 D) 100 E) 150

3.



ABCD paralelkenar

ABCD parallelogram

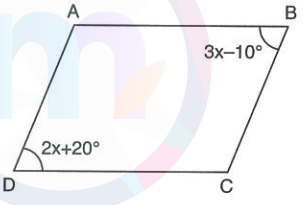
$m(\widehat{DAB}) = 2x$

$m(\widehat{ADC}) = 4x$

$\Rightarrow m(\widehat{DAB}) = ?$

A) 30 B) 60 C) 90 D) 120 E) 150

4.



ABCD paralelkenar

ABCD parallelogram

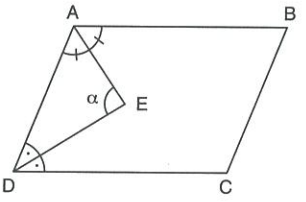
$m(\widehat{ADC}) = 2x + 20°$

$m(\widehat{ABC}) = 3x - 10°$

$\Rightarrow m(\widehat{DAB}) = ?$

A) 6 B) 30 C) 80 D) 100 E) 148

5.



ABCD paralelkenar

ABCD parallelogram

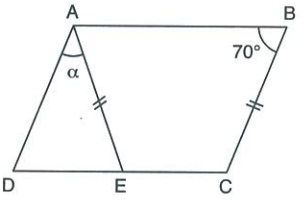
$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ADE}) = m(\widehat{EDC})$

$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 90 E) 120

6.



ABCD paralelkenar

ABCD parallelogram

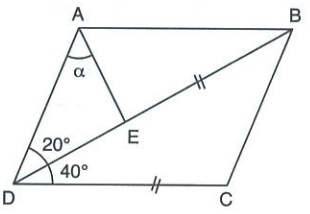
$|AE| = |BC|$

$m(\widehat{ABC}) = 70°$

$\Rightarrow m(\widehat{DAE}) = \alpha = ?$

A) 40 B) 70 C) 90 D) 110 E) 140

7.



ABCD paralelkenar

ABCD parallelogram

$|BE| = |DC|$

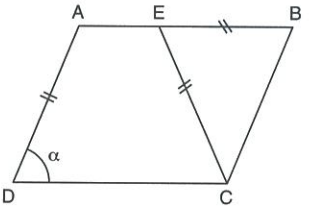
$m(\widehat{ADB}) = 20°$

$m(\widehat{BDC}) = 40°$

$\Rightarrow m(\widehat{DAE}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 70 E) 120

8.



ABCD paralelkenar

ABCD parallelogram

$|AD| = |EC| = |EB|$

$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 120 B) 90 C) 75 D) 60 E) 30

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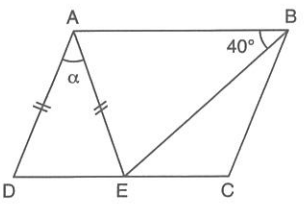
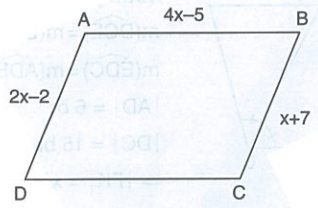
9.



ABCD paralelkenar
ABCD parallelogram
$|AD| = |AE|$
$|BE| = |DC|$
$m(\widehat{ABE}) = 40°$
$\Rightarrow m(\widehat{DAE}) = \alpha = ?$

A) 20 B) 40 C) 70 D) 100 E) 110

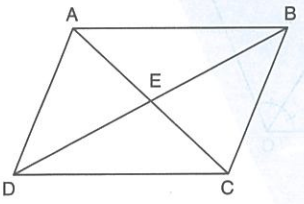
10.



ABCD paralelkenar
ABCD parallelogram
$|AB| = 4x - 5$
$|AD| = 2x - 2$
$|BC| = x + 7$
$\Rightarrow |DC| = ?$

A) 9 B) 16 C) 31 D) 36 E) 41

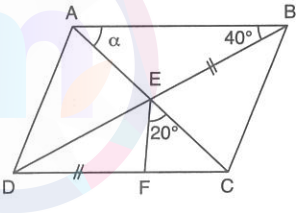
11.



ABCD paralelkenar
ABCD parallelogram
$|BE| = x + 5$
$|DE| = 2x - 1$
$\Rightarrow |BD| = ?$

A) 2 B) 6 C) 7 D) 11 E) 22

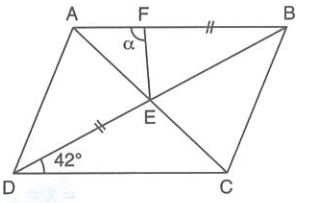
12.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{FEC}) = 20°$
$m(\widehat{ABD}) = 40°$
$|DF| = |BE|$
$\Rightarrow m(\widehat{CAB}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 70

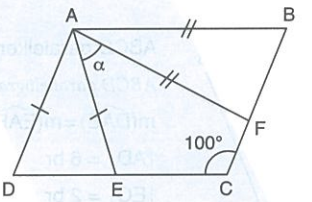
13.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{BDC}) = 42°$
$|DE| = |BF|$
$\Rightarrow m(\widehat{AFE}) = \alpha = ?$

A) 122 B) 111 C) 84 D) 68 E) 42

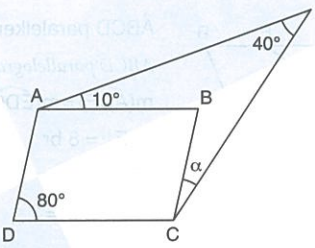
14.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{DCB}) = 100°$
$m(\widehat{EAF}) = \alpha$
$|AD| = |AE|$
$|AF| = |AB|$
$\Rightarrow m(\widehat{EAF}) = \alpha = ?$

A) 80 B) 60 C) 50 D) 40 E) 20

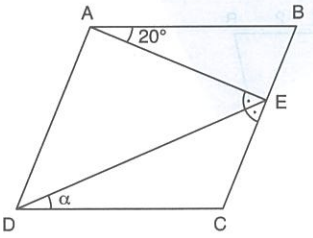
15.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{AEC}) = 40°$
$m(\widehat{EAB}) = 10°$
$m(\widehat{ADC}) = 80°$
$\Rightarrow m(\widehat{BCE}) = \alpha = ?$

A) 70 B) 60 C) 50 D) 40 E) 30

16.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{BAE}) = 20°$
$m(\widehat{AED}) = m(\widehat{DEC})$
$|AE| = |DC|$
$\Rightarrow m(\widehat{EDC}) = \alpha = ?$

A) 30 B) 40 C) 50 D) 60 E) 70

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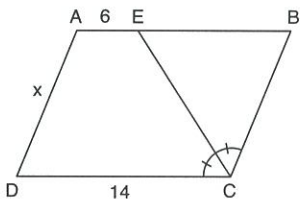
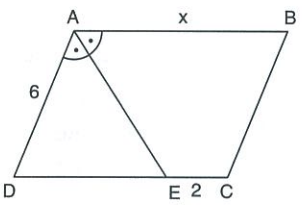
1.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{DCE}) = m(\widehat{ECB})$
$|DC| = 14$ br
$|AE| = 6$ br
$\Rightarrow |AD| = x = ?$

A) 4 B) 6 C) 7 D) 8 E) 10

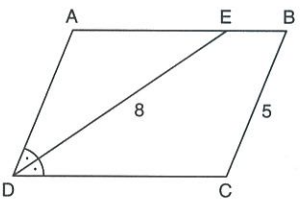
2.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{DAE}) = m(\widehat{EAB})$
$|AD| = 6$ br
$|EC| = 2$ br
$\Rightarrow |AB| = x = ?$

A) 16 B) 14 C) 12 D) 10 E) 8

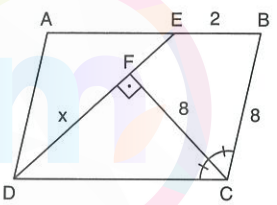
3.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{ADE}) = m(\widehat{EDC})$
$|DE| = 8$ br
$|BC| = 5$ br
$\Rightarrow Ç(ADE) = ?$

A) 5 B) 10 C) 12 D) 16 E) 18

4.



ABCD paralelkenar
ABCD parallelogram
$[CF] \perp [DE]$
$m(\widehat{DCF}) = m(\widehat{FCB})$
$|FC| = |BC| = 8$ br
$|EB| = 2$ br
$\Rightarrow |DF| = x = ?$

A) 4 B) 5 C) 6 D) 8 E) 10

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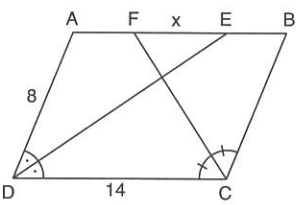
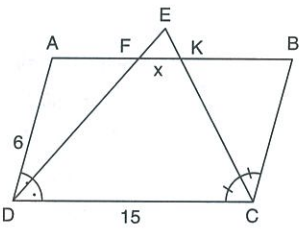
5.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{DCF}) = m(\widehat{FCB})$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$|AD| = 8$ br
$|DC| = 14$ br
$\Rightarrow |FE| = x = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

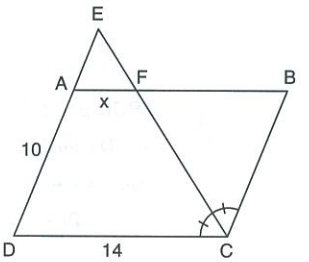
6.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{DCE}) = m(\widehat{ECB})$
$m(\widehat{EDC}) = m(\widehat{ADE})$
$|AD| = 6$ br
$|DC| = 15$ br
$\Rightarrow |FK| = x = ?$

A) 3 B) 6 C) 9 D) 10 E) 12

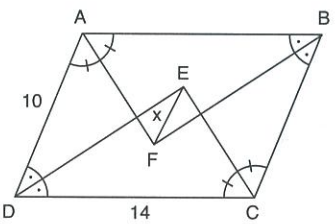
7.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{DCE}) = m(\widehat{ECB})$
$|AD| = 10$ br
$|DC| = 14$ br
$\Rightarrow |AF| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

8.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{ADE}) = m(\widehat{EDC})$
$m(\widehat{DCE}) = m(\widehat{ECB})$
$m(\widehat{CBF}) = m(\widehat{FBA})$
$m(\widehat{BAF}) = m(\widehat{FAD})$
$|AD| = 10$ br
$|DC| = 14$ br
$\Rightarrow |EF| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

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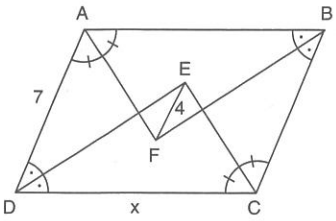
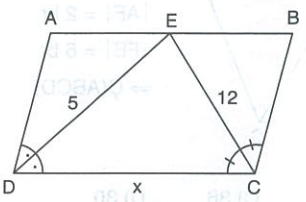
9.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{DAF}) = m(\widehat{FAB})$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$m(\widehat{DCE}) = m(\widehat{ECB})$
$m(\widehat{CBF}) = m(\widehat{FBA})$
$|AD| = 7$ br
$|EF| = 4$ br
$\Rightarrow |DC| = x = ?$

A) 3 B) 8 C) 10 D) 11 E) 14

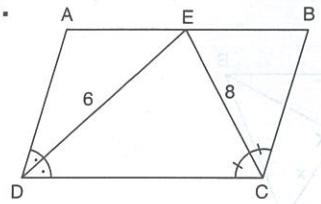
10.



ABCD paralelkenar
ABCD parallelogram
[DE] ve [EC] açıortay
[DE] and [EC] bisector
$|DE| = 5$ br
$|EC| = 12$ br
$\Rightarrow |DC| = x = ?$

A) 5 B) 10 C) 12 D) 13 E) 17

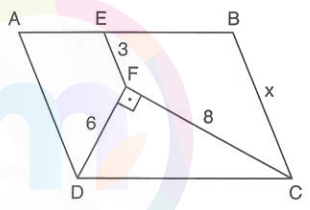
11.



ABCD paralelkenar
ABCD parallelogram
[DE] ve [EC] açıortay
[DE] and [EC] bisector
$|DE| = 6$ br
$|CE| = 8$ br
$\Rightarrow$ Çevre(ABCD) = ?

A) 10 B) 20 C) 30 D) 40 E) 50

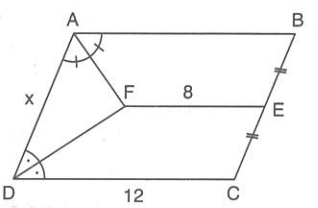
12.



ABCD paralelkenar
ABCD parallelogram
[AD] // [EF] // [BC]
[DF] ⊥ [FC]
$|DF| = 6$ br
$|FC| = 8$ br
$|EF| = 3$ br
$\Rightarrow |BC| = x = ?$

A) 5 B) 6 C) 8 D) 10 E) 13

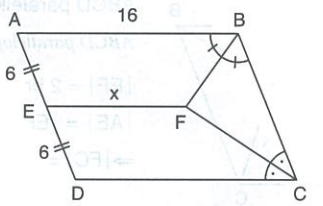
13.



ABCD paralelkenar
ABCD parallelogram
[AF] ve [DF] açıortay
[AF] and [DF] bisector
$|FE| = 8$ br
$|DC| = 12$ br
$|BE| = |EC|$
$\Rightarrow |AD| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 12

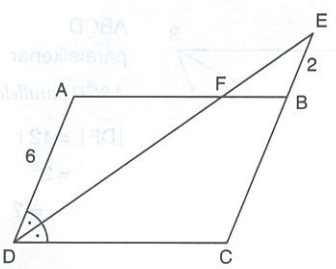
14.



ABCD paralelkenar
ABCD parallelogram
[BF] ve [FC] açıortay
[BF] and [FC] bisector
$|AB| = 16$ br
$|AE| = |ED| = 6$
$\Rightarrow |EF| = x = ?$

A) 3 B) 6 C) 8 D) 10 E) 11

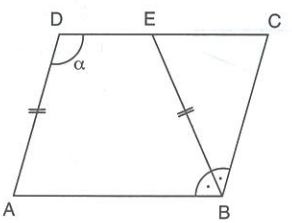
15.



ABCD paralelkenar
ABCD parallelogram
[DE] açıortay
[DE] bisector
$|AD| = 6$ br
$|EB| = 2$ br
$\Rightarrow |DC| = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

16.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{ABE}) = m(\widehat{EBC})$
$|AD| = |EB|$
$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 100 B) 105 C) 110 D) 120 E) 135

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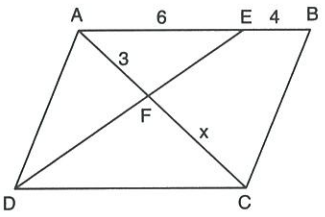
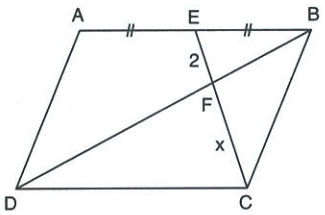
1.



ABCD paralelkenar
ABCD parallelogram
$|AE| = 6$ br
$|EB| = 4$ br
$|AF| = 3$ br
$\Rightarrow |FC| = x = ?$

A) 2 B) 4 C) 5 D) 10 E) 20

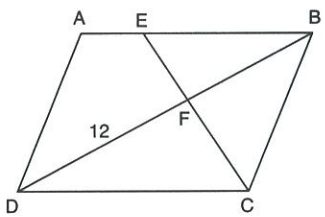
2.



ABCD paralelkenar
ABCD parallelogram
$|EF| = 2$ br
$|AE| = |EB|$
$\Rightarrow |FC| = x = ?$

A) 16 B) 8 C) 4 D) 2 E) 1

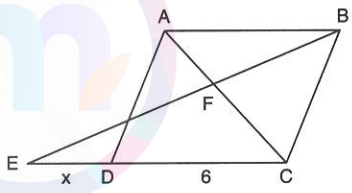
3.



ABCD paralelkenar
ABCD parallelogram
$|DF| = 12$ br
$|EB| = 3 \cdot |AE|$
$\Rightarrow |BD| = ?$

A) 9 B) 18 C) 21 D) 36 E) 48

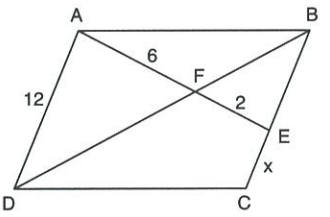
4.



ABCD paralelkenar
ABCD parallelogram
$2|FC| = 3|AF|$
$|DC| = 6$ br
$\Rightarrow |ED| = x = ?$

A) 1 B) 3 C) 6 D) 9 E) 12

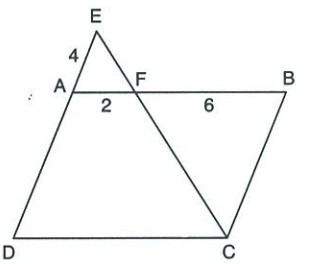
5.



ABCD paralelkenar
ABCD parallelogram
$|AD| = 12$ br
$|AF| = 6$ br
$|FE| = 2$ br
$\Rightarrow |EC| = x = ?$

A) 4 B) 6 C) 7 D) 8 E) 10

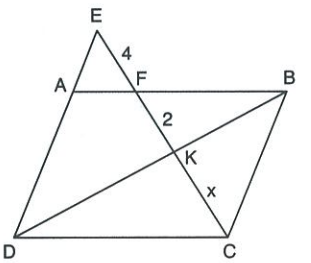
6.



ABCD paralelkenar
ABCD parallelogram
$|AE| = 4$ br
$|AF| = 2$ br
$|FB| = 6$ br
$\Rightarrow$ Ç(ABCD) = ?

A) 42 B) 40 C) 36 D) 30 E) 20

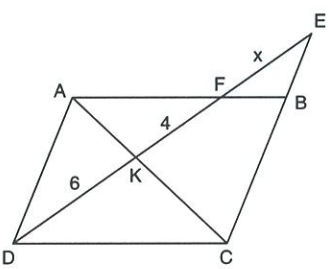
7.



ABCD paralelkenar
ABCD parallelogram
$|EF| = 4$ br
$|FK| = 2$ br
$\Rightarrow |KC| = x = ?$

A) $2\sqrt{3}$ B) 6 C) $4\sqrt{3}$ D) 12 E) $12\sqrt{3}$

8.



ABCD paralelkenar
ABCD parallelogram
$|DK| = 6$ br
$|KF| = 4$ br
$\Rightarrow |FE| = x = ?$

A) 5 B) 4 C) 3 D) 2 E) 1

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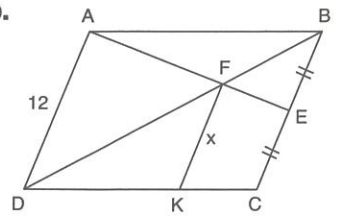
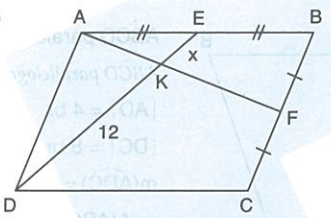
9.



ABCD paralelkenar
ABCD parallelogram
[AD] // [FK]
|BE| = |EC|
|AD| = 12 br
⇒ |FK| = x = ?

A) 6 B) 7 C) 8 D) 9 E) 10

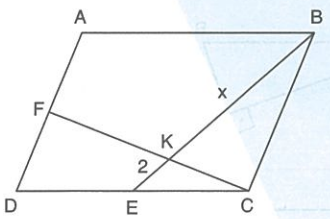
10.



ABCD paralelkenar
ABCD parallelogram
|DK| = 12 br
|AE| = |EB|
|BF| = |FC|
⇒ |KE| = x = ?

A) 2 B) 3 C) 4 D) 5 E) 6

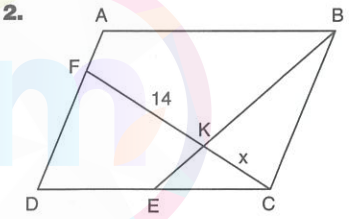
11.



ABCD paralelkenar
ABCD parallelogram
|AF| = |FD|
|DE| = |EC|
|KE| = 2 br
⇒ |BK| = x = ?

A) $\frac{5}{2}$ B) 4 C) $\frac{15}{2}$ D) 8 E) $\frac{25}{3}$

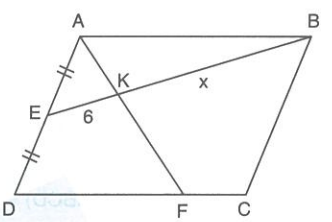
12.



ABCD paralelkenar
ABCD parallelogram
3|AF| = |DF|
|FK| = 14 br
|DE| = |EC|
⇒ |KC| = x = ?

A) $\frac{3}{2}$ B) 6 C) 8 D) $\frac{32}{3}$ E) 12

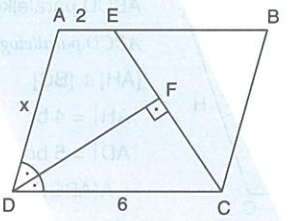
13.



ABCD paralelkenar
ABCD parallelogram
|AE| = |ED|
3|FC| = |DF|
|EK| = 6 br
⇒ |KB| = x = ?

A) 6 B) $\frac{20}{3}$ C) 16 D) $\frac{33}{2}$ E) 24

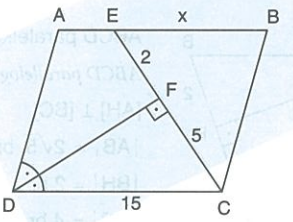
14.



ABCD paralelkenar
ABCD parallelogram
|AE| = 2 br
|DC| = 6 br
[DF] ⊥ [EC]
[DF] açıortay
[DF] bisector
⇒ |AD| = x = ?

A) 10 B) 8 C) 6 D) 4 E) 2

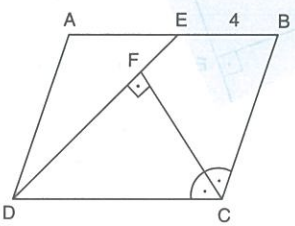
15.



ABCD paralelkenar
ABCD parallelogram
|EF| = 2 br
|FC| = 5 br
|DC| = 15 br
[DF] ⊥ [EC]
[DF] açıortay
[DF] bisector
⇒ |EB| = x = ?

A) $\frac{3}{2}$ B) $\frac{9}{2}$ C) $\frac{21}{2}$ D) 12 E) 14

16.



ABCD paralelkenar
ABCD parallelogram
|EB| = 4 br
2|FE| = |DF|
[FC] ⊥ [DE]
[FC] açıortay
[FC] bisector
⇒ |DC| = ?

A) 16 B) 12 C) 10 D) 8 E) 6

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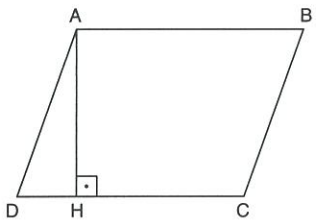
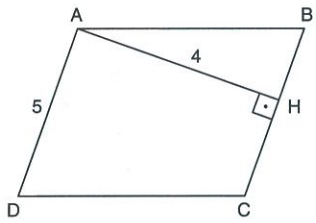
1.



ABCD paralelkenar
ABCD parallelogram
[AH] ⊥ [DC]
|AH| = 6 br
|DC| = 10 br
⇒ A(ABCD) = ?

A) 120 B) 60 C) 30 D) 15 E) 10

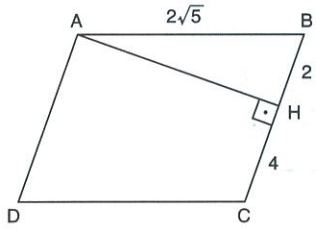
2.



ABCD paralelkenar
ABCD parallelogram
[AH] ⊥ [BC]
|AH| = 4 br
|AD| = 5 br
⇒ A(ABCD) = ?

A) 5 B) 10 C) 20 D) 40 E) 80

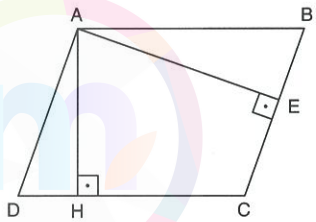
3.



ABCD paralelkenar
ABCD parallelogram
[AH] ⊥ [BC]
|AB| = 2√5 br
|BH| = 2 br
|HC| = 4 br
⇒ A(ABCD) = ?

A) 6 B) 6√5 C) 12 D) 24 E) 12√5

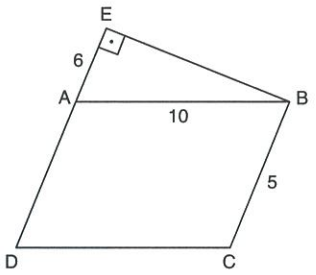
4.



ABCD paralelkenar
ABCD parallelogram
[AE] ⊥ [BC]
[AH] ⊥ [DC]
|AE| = 6 br
|AH| = 4 br
|DC| = 8 br
⇒ |BC| = x = ?

A) 24 B) 12 C) $\frac{16}{3}$ D) 3 E) $\frac{8}{3}$

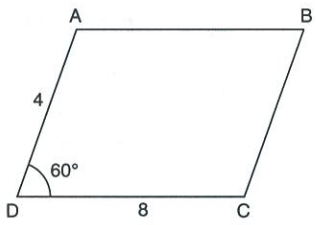
5.



ABCD paralelkenar
ABCD parallelogram
[BE] ⊥ [DE]
|AE| = 6 br
|AB| = 10 br
|BC| = 5 br
⇒ A(ABCD) = ?

A) 50 B) 40 C) 30 D) 25 E) 20

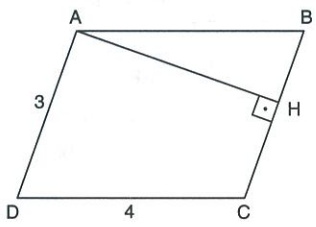
6.



ABCD paralelkenar
ABCD parallelogram
|AD| = 4 br
|DC| = 8 br
m(ADC) = 60°
⇒ A(ABCD) = ?

A) 8√3 B) 16√3 C) 24√3 D) 26√3 E) 32√3

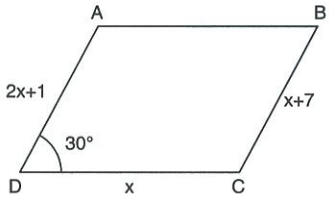
7.



ABCD paralelkenar
ABCD parallelogram
[AH] ⊥ [BC]
|AD| = 3 br
|DC| = 4 br
|AB| = 2|BH|
⇒ A(ABCD) = ?

A) 12√3 B) 6√3 C) 6 D) 3√3 E) 3

8.



ABCD paralelkenar
ABCD parallelogram
|AD| = (2x + 1) br
|BC| = (x + 7) br
|DC| = x
m(ADC) = 30°
⇒ A(ABCD) = ?

A) 18 B) 26 C) 26√3 D) 39 E) 39√3

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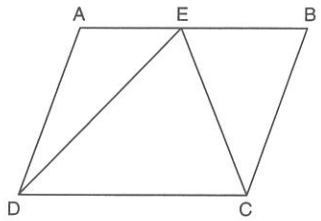
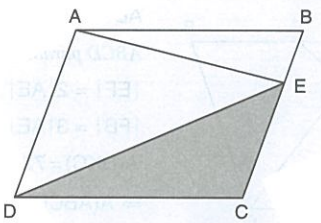
9.



ABCD paralelkenar
ABCD parallelogram
$A(EDC) = 40\,br^2$
$\Rightarrow A(ABCD) = ?$

A) 20 B) 40 C) 60 D) 70 E) 80

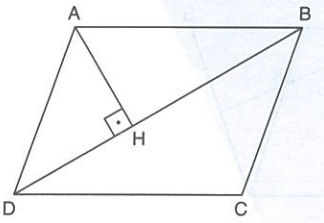
10.



ABCD paralelkenar
ABCD parallelogram
$A(ABE) = 20\,br^2$
$A(AED) = 30\,br^2$
$\Rightarrow A(EDC) = ?$

A) 5 B) 10 C) 20 D) 30 E) 50

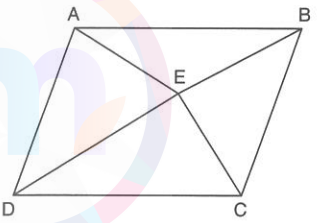
11.



ABCD paralelkenar
ABCD parallelogram
$[AH] \perp [DB]$
$|AH| = 4$ br
$|DB| = 8$ br
$\Rightarrow A(ABCD) = ?$

A) 64 B) 48 C) 32 D) 24 E) 18

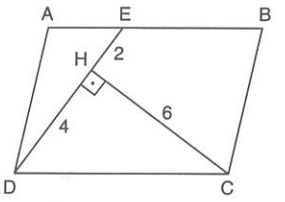
12.



ABCD paralelkenar
ABCD parallelogram
$A(ABE) = 4\,br^2$
$A(EDC) = 12\,br^2$
$\Rightarrow A(ABCD) = ?$

A) 16 B) 24 C) 32 D) 48 E) 60

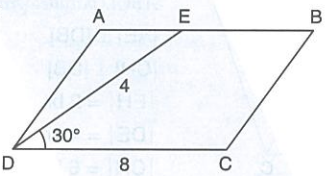
13.



ABCD paralelkenar
ABCD parallelogram
$[CH] \perp [DE]$
$|DH| = 4$ br
$|HE| = 2$ br
$|CH| = 6$ br
$\Rightarrow A(ABCD) = ?$

A) 12 B) 18 C) 24 D) 32 E) 36

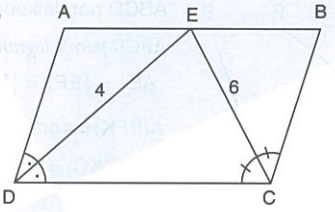
14.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{EDC}) = 30°$
$|DE| = 4$ br
$|DC| = 8$ br
$\Rightarrow A(ABCD) = ?$

A) 16 B) $8\sqrt{3}$ C) $4\sqrt{3}$ D) 8 E) 4

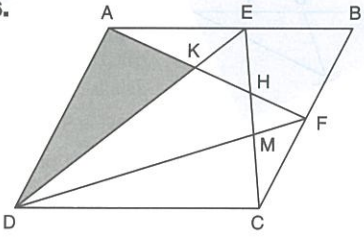
15.



ABCD paralelkenar
ABCD parallelogram
$|DE| = 4$ br
$|EC| = 6$ br
[DE] ve [EC] açıortay
[DE] and [EC] bisector
$\Rightarrow A(ABCD) = ?$

A) 6 B) 10 C) 12 D) 18 E) 24

16.



ABCD paralelkenar
ABCD parallelogram
$A(EKH) = 4\,br^2$
$A(HFM) = 3\,br^2$
$A(DMC) = 8\,br^2$
$\Rightarrow A(AKD) = ?$

A) 9 B) 8 C) 7 D) 6 E) 5

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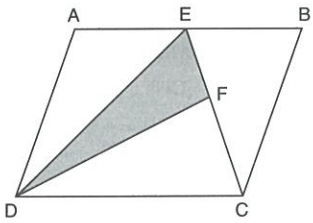
PUZA YAYINLARI

1.



ABCD paralelkenar

ABCD parallelogram

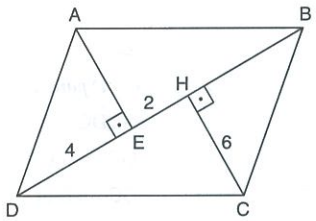
$|FC| = 2|EF|$

$A(DEF) = 6\,br^2$

$\Rightarrow A(ABCD) = ?$

A) 12 B) 18 C) 24 D) 36 E) 48

2.



ABCD paralelkenar

ABCD parallelogram

$[AE] \perp [DB]$

$[CH] \perp [DB]$

$|EH| = 2$ br

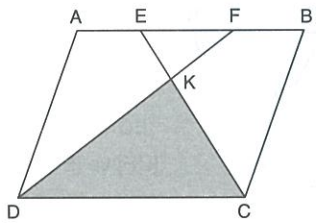
$|DE| = 4$ br

$|CH| = 6$ br

$\Rightarrow A(ABCD) = ?$

A) 78 B) 60 C) 54 D) 48 E) 39

3.



ABCD paralelkenar

ABCD parallelogram

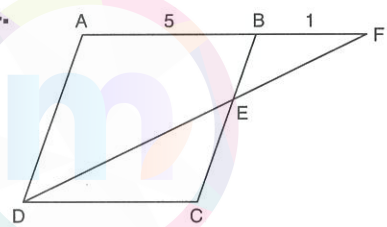
$|AE| = |EF| = |FB|$

$A(EFK) = 4\,br^2$

$\Rightarrow A(DKC) = ?$

A) 48 B) 36 C) 24 D) 12 E) 8

4.



ABCD paralelkenar

ABCD parallelogram

$|AB| = 5$ br

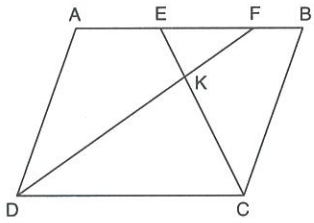
$|BF| = 1$ br

$A(BEF) = 2\,br^2$

$\Rightarrow A(ABCD) = ?$

A) 50 B) 60 C) 80 D) 100 E) 120

5.



ABCD paralelkenar

ABCD parallelogram

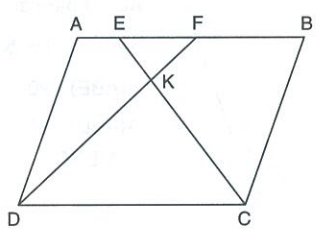
$|AE| = 2|EF| = 2|FB|$

$A(EFK) = 4\,br^2$

$\Rightarrow A(ABCD) = ?$

A) 48 B) 60 C) 80 D) 120 E) 160

6.



ABCD paralelkenar

ABCD parallelogram

$|EF| = 2|AE|$

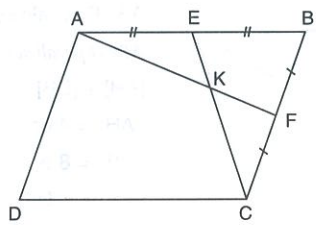
$|FB| = 3|AE|$

$A(DKC) = 72\,br^2$

$\Rightarrow A(ABCD) = ?$

A) 16 B) 100 C) 144 D) 192 E) 200

7.



ABCD paralelkenar

ABCD parallelogram

$|AE| = |EB|$

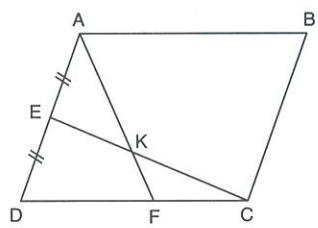
$|FB| = |FC|$

$A(AEK) = 5\,br^2$

$\Rightarrow A(ABCD) = ?$

A) 60 B) 50 C) 45 D) 30 E) 25

8.



ABCD paralelkenar

ABCD parallelogram

$|AE| = |ED|$

$|DF| = 2|FC|$

$A(FCK) = 6\,br^2$

$\Rightarrow A(ABCD) = ?$

A) 96 B) 108 C) 144 D) 180 E) 190

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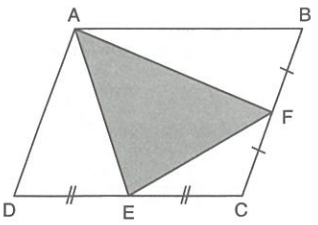
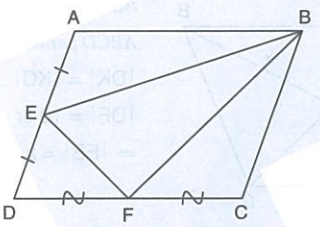
9.



ABCD paralelkenar
ABCD parallelogram
$|DE| = |EC|$
$|BF| = |FC|$
$A(AEF) = 9\,br^2$
$\Rightarrow A(ABCD) = ?$

A) 12 B) 18 C) 24 D) 36 E) 48

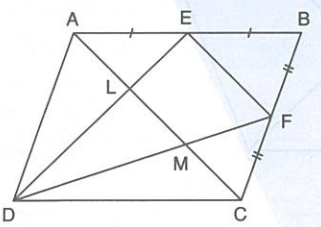
10.



ABCD paralelkenar
ABCD parallelogram
$|AE| = |ED|$
$|DF| = |FC|$
$A(DEF) = 15\,br^2$
$\Rightarrow A(ABCD) = ?$

A) 180 B) 150 C) 120 D) 110 E) 100

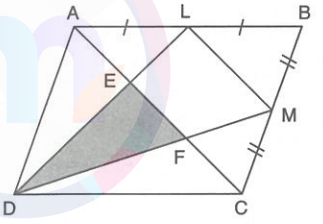
11.



ABCD paralelkenar
ABCD parallelogram
$|AE| = |EB|$
$|BF| = |FC|$
$A(EFML) = 10\,br^2$
$\Rightarrow A(ABCD) = ?$

A) 24 B) 48 C) 50 D) 60 E) 100

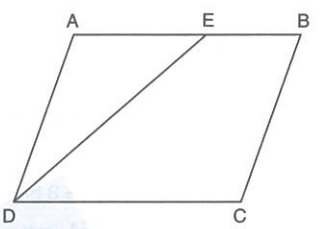
12.



ABCD paralelkenar
ABCD parallelogram
$|AL| = |LB|$
$|BM| = |MC|$
$A(FMC) = 4\,br^2$
$\Rightarrow A(EFD) = ?$

A) 8 B) 12 C) 16 D) 24 E) 48

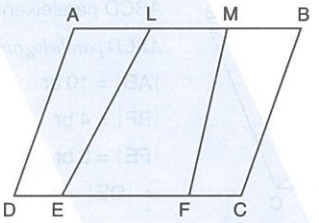
13.



ABCD paralelkenar
ABCD parallelogram
$2|AE| = 3|EB|$
$A(ABCD) = 50\,br^2$
$\Rightarrow A(AED) = ?$

A) 10 B) 15 C) 20 D) 30 E) 45

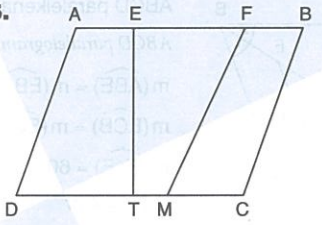
14.



ABCD paralelkenar
ABCD parallelogram
$|AL| = |LM| = |MB|$
$|EF| = 2|DE| = 2|FC|$
$A(EFML) = 20\,br^2$
$\Rightarrow A(ABCD) = ?$

A) 30 B) 40 C) 48 D) 60 E) 96

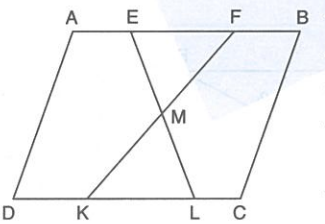
15.



ABCD paralelkenar
ABCD parallelogram
$|EF| = 2|AE| = 2|FB|$
$2|DT| = 6|TM| = 2|MC|$
$A(ABCD) = 56\,br^2$
$\Rightarrow A(EFMT) = ?$

A) 12 B) 16 C) 18 D) 20 E) 24

16.



ABCD paralelkenar
ABCD parallelogram
$2|EF| = |AB|$
$3|KL| = |DC|$
$A(EFM) = 9\,br^2$
$\Rightarrow A(ABCD) = ?$

A) 30 B) 48 C) 50 D) 54 E) 60

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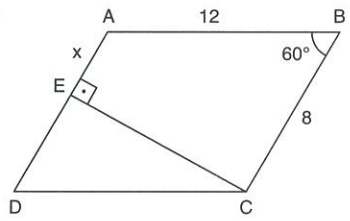
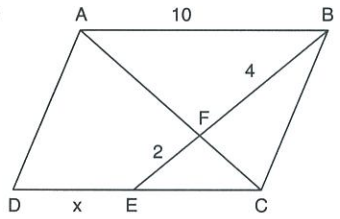
1.



ABCD paralelkenar
ABCD parallelogram
[CE] ⊥ [AD]
$m(\widehat{ABC}) = 60°$
$|AB| = 12$ br
$|BC| = 8$ br
$\Rightarrow |EA| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

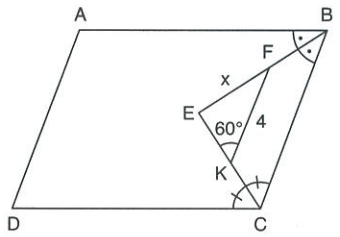
2.



ABCD paralelkenar
ABCD parallelogram
$|AB| = 10$ br
$|BF| = 4$ br
$|FE| = 2$ br
$\Rightarrow |DE| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

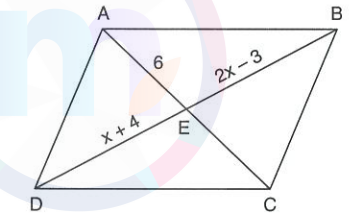
3.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{ECB}) = m(\widehat{ECD})$
$m(\widehat{FKE}) = 60°$
$|KF| = 4$ br
$\Rightarrow |EF| = x = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 8

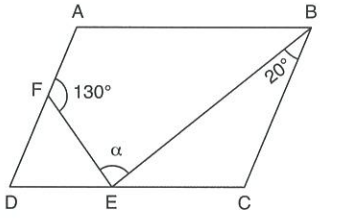
4.



ABCD paralelkenar
ABCD parallelogram
$|AE| = 6$ br
$|EB| = 2x - 3$
$|KF| = x + 4$
$\Rightarrow |AC| + |BD| = ?$

A) 10 B) 13 C) 17 D) 26 E) 34

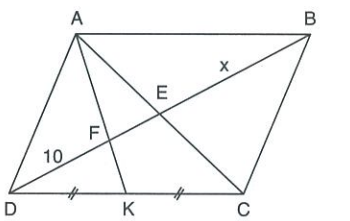
5.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{AFE}) = 130°$
$m(\widehat{EBC}) = 20°$
$\Rightarrow m(\widehat{FEB}) = \alpha = ?$

A) 70 B) 65 C) 60 D) 50 E) 45

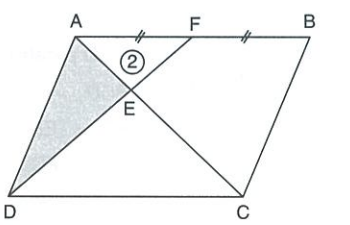
6.



ABCD paralelkenar
ABCD parallelogram
$|DK| = |KC|$
$|DF| = 10$ br
$\Rightarrow |EB| = x = ?$

A) 20 B) 18 C) 15 D) 12 E) 10

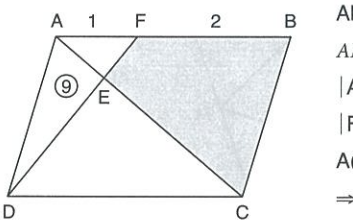
7.



ABCD paralelkenar
ABCD parallelogram
$|AF| = |FB|$
$A(AEF) = 2$ br^2
$\Rightarrow A(AED) = ?$

A) 2 B) 4 C) 6 D) 8 E) 12

8.



ABCD paralelkenar
ABCD parallelogram
$|AF| = 1$ br
$|FB| = 2$ br
$A(AED) = 9$ br^2
$\Rightarrow A(FBCE) = ?$

A) 12 B) 24 C) 33 D) 36 E) 48

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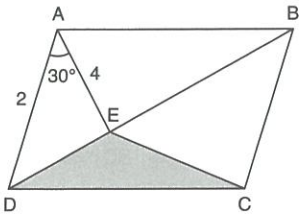
PUZA YAYINLARI
PUZA YAYINLARI

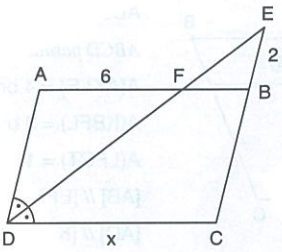
9.



ABCD paralelkenar
ABCD parallelogram
$|AD| = 2$ br
$|AE| = 4$ br
$m(\widehat{DAE}) = 30°$
$\Rightarrow A(EDC) = ?$

A) 1 B) 2 C) $2\sqrt{3}$ D) 4 E) $4\sqrt{3}$

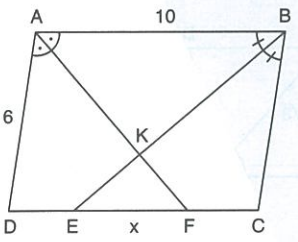
10.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{ADE}) = m(\widehat{EDC})$
$|AF| = 6$ br
$|EB| = 2$ br
$\Rightarrow |DC| = x = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

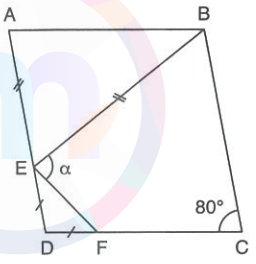
11.



ABCD paralelkenar
ABCD parallelogram
[AF], [BE] açıortay
[AF], [BE] bisector
$|AB| = 10$ br
$|AD| = 6$ br
$\Rightarrow |EF| = x = ?$

A) 1 B) 2 C) 4 D) 5 E) 6

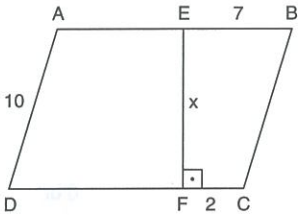
12.



ABCD paralelkenar
ABCD parallelogram
$|AE| = |EB|$
$|ED| = |DF|$
$m(\widehat{DCB}) = 80°$
$\Rightarrow m(\widehat{BEF}) = \alpha = ?$

A) 120 B) 110 C) 100 D) 90 E) 80

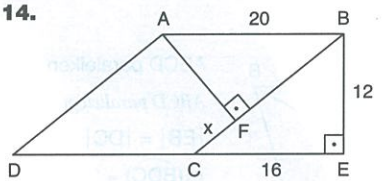
13.



ABCD paralelkenar
ABCD parallelogram
$[EF] \perp [DC]$
$|EB| = 7$ br
$|FC| = 2$ br
$|AD| = 10$ br
$\Rightarrow |EF| = x = ?$

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 10 E) 15

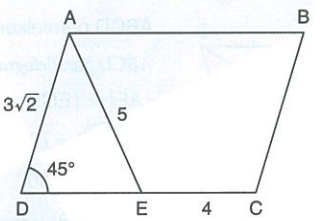
14.



ABCD paralelkenar
ABCD parallelogram
$[BE] \perp [DE]$
$[AF] \perp [BC]$
$|AB| = 20$ br
$|CE| = 16$ br
$|BE| = 12$ br
$\Rightarrow |CF| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

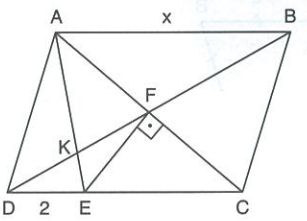
15.



ABCD paralelkenar
ABCD parallelogram
$|AE| = 5$ br
$|EC| = 4$ br
$|AD| = 3\sqrt{2}$ br
$m(\widehat{ADC}) = 45°$
$\Rightarrow A(ABCD) = ?$

A) 32 B) 33 C) 45 D) 48 E) 52

16.



$[EF] \perp [AC]$
$|DE| = 2$ br
$|AE| = 8$ br
$\Rightarrow |AB| = x = ?$

A) 12 B) 10 C) 8 D) 6 E) 4

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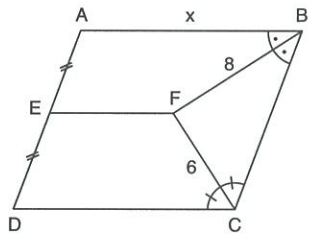
PUZA YAYINLARI
PUZA YAYINLARI

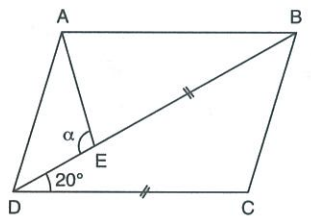
1.



ABCD paralelkenar
ABCD parallelogram
[BF], [FC] açıortay
[BF], [FC] bisector
$|EF| = 2$ br
$|FC| = 6$ br
$|FB| = 8$ br
$\Rightarrow |AB| = x = ?$

A) 4 B) 5 C) 7 D) 8 E) 10

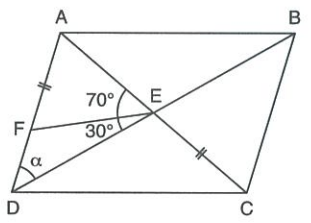
2.



ABCD paralelkenar
ABCD parallelogram
$|EB| = |DC|$
$m(\widehat{BDC}) = 20°$
$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 80 B) 90 C) 100 D) 120 E) 140

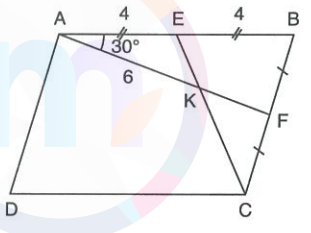
3.



ABCD paralelkenar
ABCD parallelogram
$|AF| = |EC|$
$m(\widehat{AEF}) = 70°$
$m(\widehat{FED}) = 30°$
$\Rightarrow m(\widehat{ADB}) = \alpha = ?$

A) 10 B) 15 C) 20 D) 25 E) 40

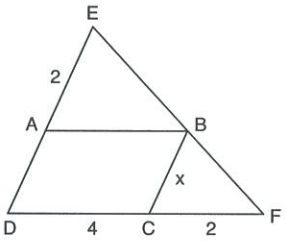
4.



ABCD paralelkenar
ABCD parallelogram
$|AK| = 6$ br
$|AE| = |EB| = 4$ br
$|BF| = |FC|$
$m(\widehat{BAF}) = 30°$
$\Rightarrow A(ABCD) = ?$

A) 144 B) 108 C) 72 D) 48 E) 36

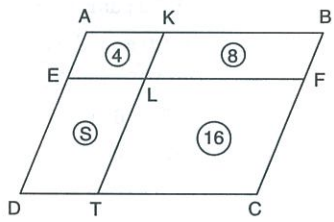
5.



ABCD paralelkenar
ABCD parallelogram
$|DC| = 4$ br
$|AE| = |CF| = 2$ br
$\Rightarrow |BC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

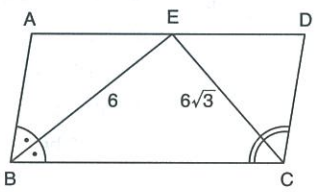
6.



ABCD paralelkenar
ABCD parallelogram
$A(AKLE) = 4$ br^2
$A(KBFL) = 8$ br^2
$A(LFCT) = 16$ br^2
[AB] // [EF]
[AD] // [KT]
$\Rightarrow A(ELTD) = S = ?$

A) 2 B) 4 C) 8 D) 12 E) 16

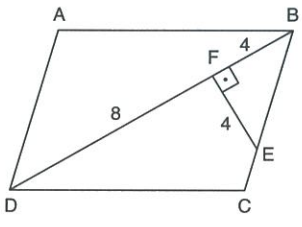
7.



ABCD paralelkenar
ABCD parallelogram
[BE], [CE] açıortay
[BE], [CE] açıortay
$|ED| = 6$ br
$|EC| = 6\sqrt{3}$ br
$\Rightarrow Ç(ABCD) = ?$

A) 28 B) 30 C) 32 D) 36 E) 48

8.



ABCD paralelkenar
ABCD parallelogram
[EF] ⊥ [BD]
$|FD| = 8$ br
$|EF| = |FB| = 4$ br
$|BE| = 2|EC|$
$\Rightarrow A(ABCD) = ?$

A) 72 B) 48 C) 42 D) 36 E) 24

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PUZA YAYINLARI
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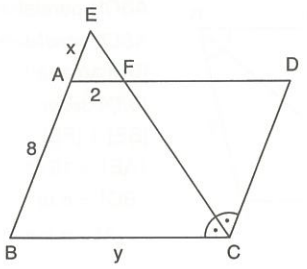
9.



ABCD paralelkenar

ABCD parallelogram

$m(\widehat{ECB}) = m(\widehat{ECD})$

$|AF| = 2$ br

$|AB| = 8$ br

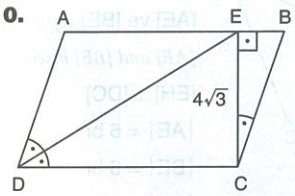
$|AE| = x$

$|BC| = y$

$\Rightarrow x + y = ?$

A) 10 B) 12 C) 14 D) 16 E) 18

10.



ABCD paralelkenar

ABCD parallelogram

$[CE] \perp [AB]$

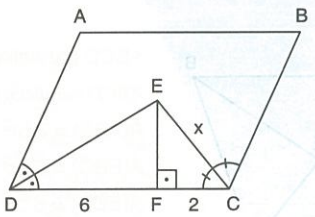
$m(\widehat{ADE}) = m(\widehat{EDC}) = m(\widehat{ECB})$

$|EC| = 4\sqrt{3}$ br

$\Rightarrow |AE| = x = ?$

A) 4 B) $4\sqrt{3}$ C) 6 D) 8 E) $8\sqrt{3}$

11.



ABCD paralelkenar

ABCD parallelogram

[DE], [EC] açıortay

[DE], [EC] bisector

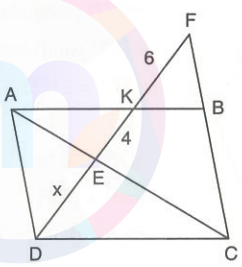
$|DF| = 6$ br

$|FC| = 2$ br

$\Rightarrow |EC| = x = ?$

A) 2 B) 4 C) $4\sqrt{3}$ D) 8 E) $8\sqrt{3}$

12.



ABCD paralelkenar

ABCD parallelogram

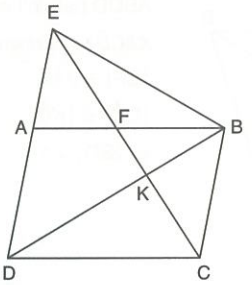
$|KF| = 6$ br

$|EK| = 4$ br

$\Rightarrow |DE| = x = ?$

A) 4 B) $2\sqrt{3}$ C) $4\sqrt{2}$ D) $2\sqrt{10}$ E) 10

13.



ABCD paralelkenar

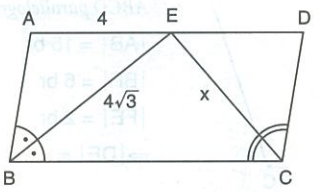
ABCD parallelogram

$A(EBC) = 8$ br^2

$\Rightarrow A(ABCD) = ?$

A) 8 B) 12 C) 16 D) 20 E) 24

14.



ABCD paralelkenar

ABCD parallelogram

[BE], [CE] açıortay

[BE], [CE] bisector

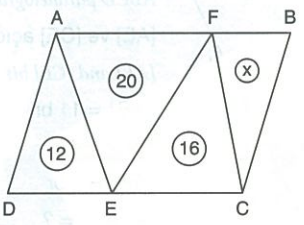
$|AE| = 4$ br

$|BE| = 4\sqrt{3}$ br

$\Rightarrow |EC| = x = ?$

A) 2 B) 4 C) $4\sqrt{3}$ D) 8 E) $8\sqrt{3}$

15.



ABCD paralelkenar

ABCD parallelogram

$A(AEF) = 20$ br^2

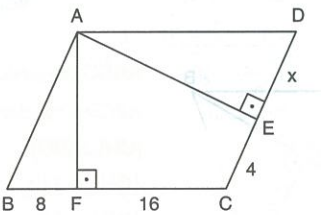
$A(EFC) = 16$ br^2

$A(DAE) = 12$ br^2

$\Rightarrow A(FBC) = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

16.



ABCD paralelkenar

ABCD parallelogram

$[AF] \perp [BC]$

$[AE] \perp [DC]$

$|EC| = 4$ br

$|BF| = 8$ br

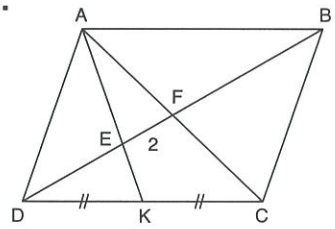
$|FC| = 16$ br

$\Rightarrow |DE| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 16

PUZA YAYINLARI

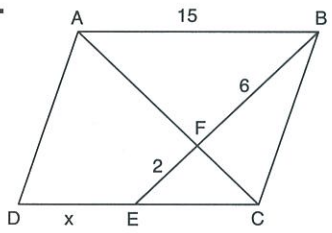
1.



ABCD paralelkenar
ABCD parallelogram
$|EF| = 2$ br
$|DK| = |KC|$
$\Rightarrow |BD| = ?$

A) 6 B) 8 C) 10 D) 12 E) 16

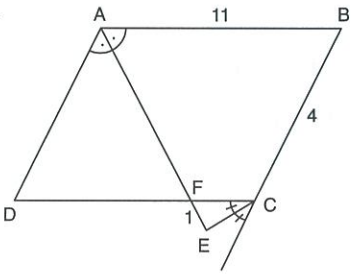
2.



ABCD paralelkenar
ABCD parallelogram
$|AB| = 15$ br
$|BF| = 6$ br
$|FE| = 2$ br
$\Rightarrow |DE| = x = ?$

A) 11 B) 10 C) 8 D) 6 E) 5

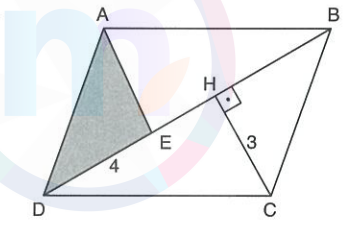
3.



ABCD paralelkenar
ABCD parallelogram
[AE] ve [CE] açıortay
[AE] and [CE] bisector
$|AB| = 11$ br
$|BC| = 4$ br
$|FE| = 1$ br
$\Rightarrow |EC| = ?$

A) 3 B) $\sqrt{15}$ C) 4 D) $2\sqrt{5}$ E) $4\sqrt{3}$

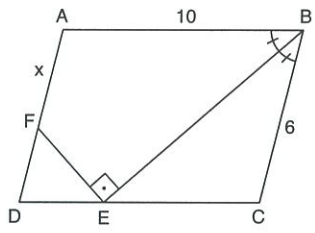
4.



ABCD paralelkenar
ABCD parallelogram
[CH] ⊥ [BD]
$|CH| = 3$ br
$|DE| = 4$ br
$\Rightarrow A(ADE) = ?$

A) 6 B) $6\sqrt{3}$ C) 12 D) $12\sqrt{3}$ E) 24

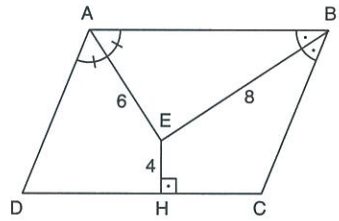
5.



ABCD paralelkenar
ABCD parallelogram
[BE] açıortay
[BE] bisector
[BE] ⊥ [FE]
$|AB| = 10$ br
$|BC| = 6$ br
$\Rightarrow |AF| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

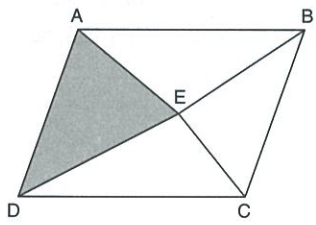
6.



ABCD paralelkenar
ABCD parallelogram
[AE] ve [BE] açıortay
[AE] and [BE] bisector
[EH] ⊥ [DC]
$|AE| = 6$ br
$|BE| = 8$ br
$|EH| = 4$ br
$\Rightarrow A(ABCD) = ?$

A) 24 B) 44 C) 48 D) 88 E) 96

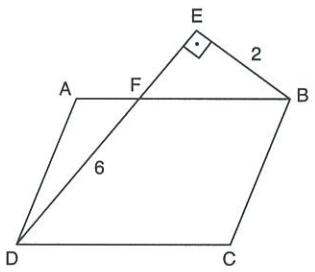
7.



ABCD paralelkenar
ABCD parallelogram
$A(ABE) = 2$ br^2
$A(EBC) = 3$ br^2
$A(ECD) = 6$ br^2
$\Rightarrow A(ADE) = ?$

A) 11 B) 6 C) 5 D) 4 E) 3

8.



ABCD paralelkenar
ABCD parallelogram
$|AF| = 2|FB|$
$|EB| = 2$ br
$|DF| = 6$ br
[EB] ⊥ [ED]
$\Rightarrow A(ABCD) = ?$

A) 144 B) 72 C) 36 D) 12 E) 6

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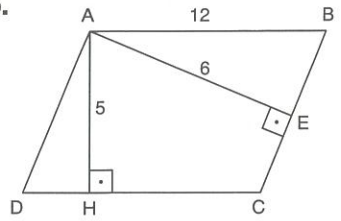
PUZA YAYINLARI
PUZA YAYINLARI

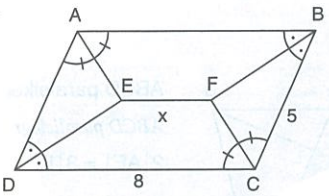
9.



ABCD paralelkenar
ABCD parallelogram
[AE] ⊥ [BC]
[AH] ⊥ [DC]
|AB| = 12 br
|AE| = 6 br
|AH| = 5 br
⇒ |AD| = x = ?

A) $\frac{72}{5}$ B) 13 C) 10 D) 8 E) $5\sqrt{2}$

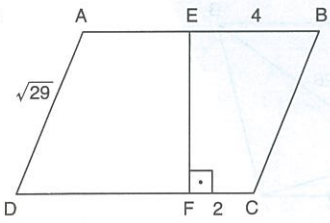
10.



ABCD paralelkenar
ABCD parallelogram
[AE], [BF], [DE] ve [FC] açıortaylar
[AE, [BF], [DE] and [FC] bisectors
|DC| = 8 br
|BC| = 5 br
⇒ |EF| = x = ?

A) 5 B) 4 C) 3 D) 2 E) 1

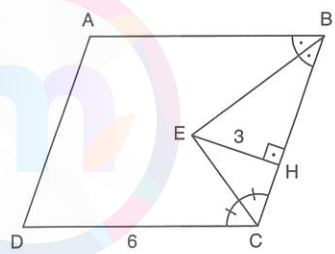
11.



ABCD paralelkenar
ABCD parallelogram
[EF] ⊥ [DC]
|AD| = $\sqrt{29}$ br
|EB| = 4 br
|FC| = 2 br
⇒ |EF| = x = ?

A) $\sqrt{13}$ B) 5 C) $\sqrt{30}$ D) $\sqrt{33}$ E) 6

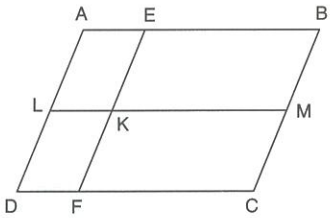
12.



ABCD paralelkenar
ABCD parallelogram
[BE] ve [CE] açıortay
[BE] and [CE] bisector
[EH] ⊥ [BC]
|EH| = 3 br
|DC| = 6 br
⇒ A(ABCD) = ?

A) 45 B) 36 C) 27 D) 18 E) 9

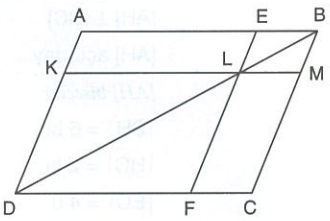
13.



ABCD paralelkenar
ABCD parallelogram
[AB] // [LM]
[AD] // [EF]
A(AEKL) = 6 br²
A(EBMK) = 15 br²
A(LKFD) = 8 br²
⇒ A(KMCF) = ?

A) 18 B) 20 C) 24 D) 25 E) 30

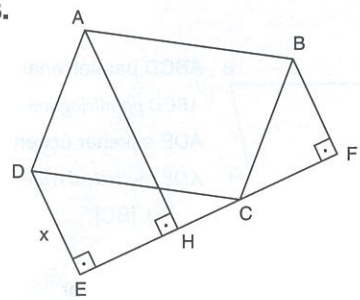
14.



ABCD paralelkenar
ABCD parallelogram
[EF] // [BC]
[KM] // [AB]
A(BML) = 4 br²
A(LFD) = 9 br²
⇒ A(AELK) = ?

A) 24 B) 18 C) 15 D) 12 E) 6

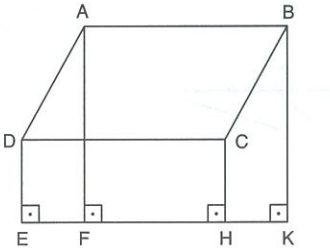
15.



ABCD paralelkenar
ABCD parallelogram
[BF] ⊥ [EF]
[AH] ⊥ [EF]
[DE] ⊥ [EF]
|BF| = 2 br
|AH| = 5 br
⇒ |DE| = x = ?

A) 3 B) 4 C) 5 D) 6 E) 7

16.



ABCD paralelkenar
ABCD parallelogram
[DE] ⊥ [EK]
[AF] ⊥ [EK]
[CH] ⊥ [EK]
[BK] ⊥ [EK]
|CH| = 2 br
|AF| = 9 br
|DE| = 3 br
⇒ |BK| = x = ?

A) 16 B) 10 C) 8 D) 4 E) 2

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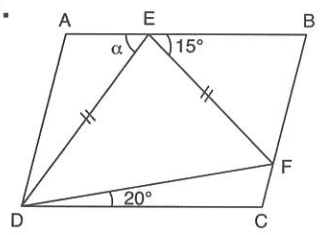
PUZA YAYINLARI
PUZA YAYINLARI

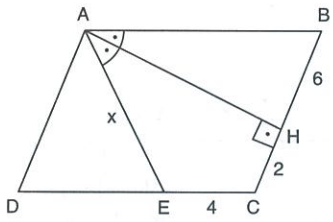
1.



ABCD paralelkenar
ABCD parallelogram
$|DE| = |EF|$
$m(BEF) = 15°$
$m(FDC) = 20°$
$\Rightarrow m(AED) = \alpha = ?$

A) 45 B) 55 C) 60 D) 70 E) 75

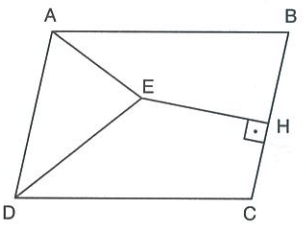
2.



ABCD paralelkenar
ABCD parallelogram
$[AH] \perp [BC]$
[AH] açıortay
[AH] bisector
$|BH| = 6$ br
$|HC| = 2$ br
$|EC| = 4$ br
$\Rightarrow |AE| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

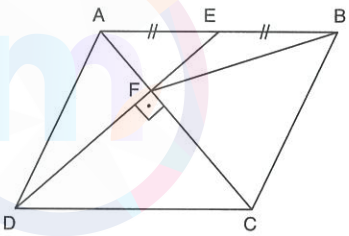
3.



ABCD paralelkenar
ABCD parallelogram
ADE eşkenar üçgen
ADE equilateral triangle
$[EH] \perp [BC]$
$|BC| = 8$ br
$|EH| = 2\sqrt{3}$ br
$\Rightarrow A(ABCD) = ?$

A) $24\sqrt{2}$ B) $24\sqrt{3}$ C) 48 D) $48\sqrt{2}$ E) $48\sqrt{3}$

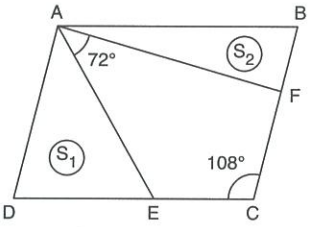
4.



ABCD paralelkenar
ABCD parallelogram
$[AC] \perp [DE]$
$|AE| = |EB|$
$|DF| = 24$ br
$|BF| = 26$ br
$\Rightarrow |AC| = ?$

A) 26 B) 28 C) 30 D) 32 E) 36

5.

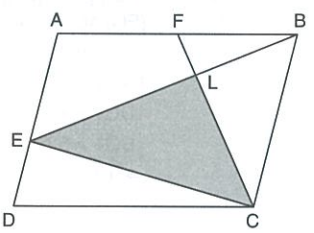


ABCD paralelkenar
ABCD parallelogram
$m(\widehat{FAE}) = 72°$
$m(\widehat{BCD}) = 108°$
$|AF| = 8$ br
$|AE| = 4$ br
$|BF| = |DE|$

$A(ADE) = S_1$ ve $A(ABF) = S_2$
$\Rightarrow \frac{S_1}{S_2} = ?$

A) $\frac{1}{2}$ B) 1 C) $\frac{4}{3}$ D) $\frac{3}{2}$ E) 2

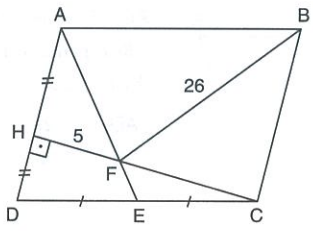
6.



ABCD paralelkenar
ABCD parallelogram
$2|AE| = 3|ED|$
$A(ECD) = 24\,br^2$
$A(BLC) = 20\,br^2$
$\Rightarrow A(ELC) = ?$

A) 4 B) 10 C) 16 D) 40 E) 60

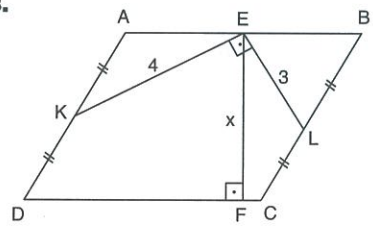
7.



ABCD paralelkenar
ABCD parallelogram
$[CH] \perp [AD]$
$|AH| = |HD|$
$|DE| = |EC|$
$|BF| = 26$ br
$|FH| = 5$ br
$\Rightarrow A(ABCD) = ?$

A) 60 B) 120 C) 180 D) 240 E) 360

8.



ABCD paralelkenar
ABCD parallelogram
$[EL] \perp [EK]$
$[EF] \perp [DC]$
$|KE| = 4$ br
$|EL| = 3$ br
$|AK| = |KD|$
$|BL| = |LC|$
$\Rightarrow |EF| = x = ?$

A) 3,6 B) 4 C) 4,8 D) 6 E) 10

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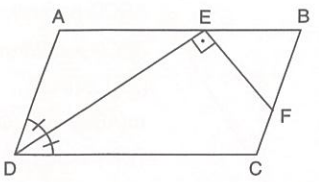
PUZA YAYINLARI
PUZA YAYINLARI

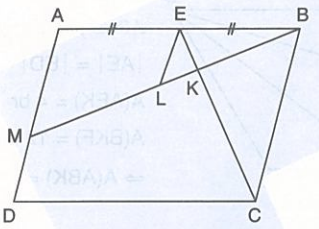
9.



ABCD paralelkenar
ABCD parallelogram
[EF] ⊥ [ED]
$m(\widehat{ADE}) = m(\widehat{EDC})$
$2|BF| = 3|FC|$
$|EF| = 12$ br
$|DE| = 15$ br
$\Rightarrow$ A(ABCD) = ?

A) 60 B) 90 C) 120 D) 180 E) 240

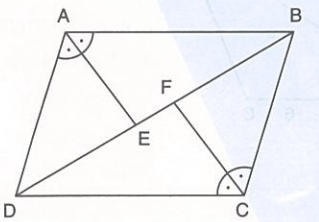
10.



ABCD paralelkenar
ABCD parallelogram
[EL] // [AD]
$|AE| = |EB|$
$|EL| = 3$ br
$|MD| = 3$ br
$\Rightarrow \frac{|KLI}{|BMI} = ?$

A) $\frac{1}{8}$ B) $\frac{1}{5}$ C) $\frac{2}{5}$ D) $\frac{3}{5}$ E) $\frac{2}{3}$

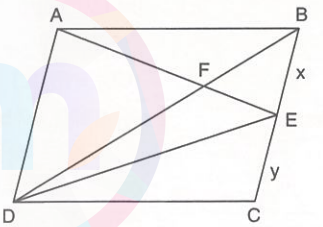
11.



ABCD paralelkenar
ABCD parallelogram
[AE] ve [FC] açıortay
[AE] and [FC] bisector
$|EF| = 1$ br
$|DC| = 10$ br
$|BC| = 8$ br
$\Rightarrow |BD| = ?$

A) 18 B) 16 C) 12 D) 9 E) 8

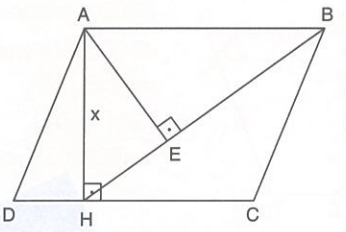
12.



ABCD paralelkenar
ABCD parallelogram
$A(AFD) = 16\,br^2$
$A(DEC) = 12\,br^2$
$|BE| = x$
$|EC| = y$
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{2}{3}$ B) $\frac{3}{5}$ C) 1 D) $\frac{5}{3}$ E) 2

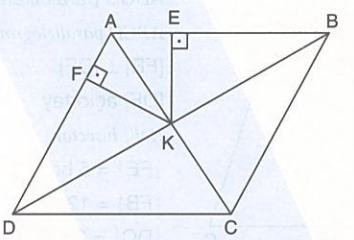
13.



ABCD paralelkenar
ABCD parallelogram
[AE] ⊥ [BH]
[AH] ⊥ [DC]
$|AE| = 6$ br
$|EB| = 4$ br
$\Rightarrow |AH| = x = ?$

A) $6\sqrt{3}$ B) $3\sqrt{13}$ C) 12 D) $12\sqrt{3}$ E) 15

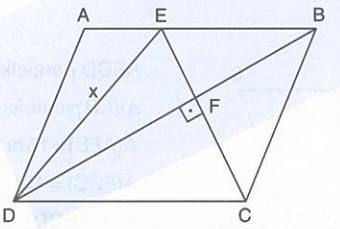
14.



ABCD paralelkenar
ABCD parallelogram
[KE] ⊥ [AB]
[FK] ⊥ [AD]
$m(\widehat{BCD}) = 135°$
$|FK| = 2$ br
$|EK| = 4$ br
$\Rightarrow$ A(ABCD) = ?

A) 8 B) 16 C) $16\sqrt{2}$ D) 32 E) $32\sqrt{2}$

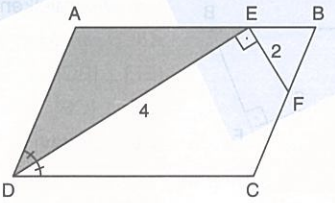
15.



ABCD paralelkenar
ABCD parallelogram
[BD] ⊥ [EC]
$|EB| = 2|AE|$
$|AD| = 15$ br
$|DF| = 18$ br
$\Rightarrow |DE| = x = ?$

A) 36 B) $18\sqrt{5}$ C) 25 D) $9\sqrt{5}$ E) $6\sqrt{10}$

16.

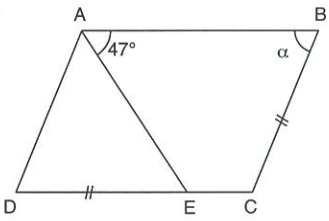


ABCD paralelkenar
ABCD parallelogram
[DE] açıortay
[DE] bisector
$|EF| = 2$ br
$|DE| = 4$ br
$|BF| = 2|FC|$
$\Rightarrow$ A(ADE) = ?

A) 3 B) 5 C) 6 D) 10 E) 12

PUZA YAYINLARI

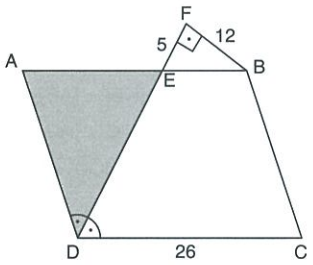
1.



ABCD paralelkenar
ABCD parallelogram
$m(\widehat{BAE}) = 47°$
$|BC| = |DE|$
$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 43 B) 47 C) 84 D) 86 E) 104

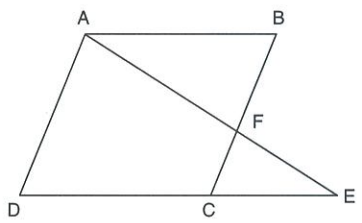
2.



ABCD paralelkenar
ABCD parallelogram
[FB] ⊥ [DF]
[DF] açıortay
[DF] bisector
$|FE| = 5$ br
$|FB| = 12$ br
$|DC| = 26$ br
$\Rightarrow A(AED) = ?$

A) 120 B) 90 C) 60 D) 45 E) 30

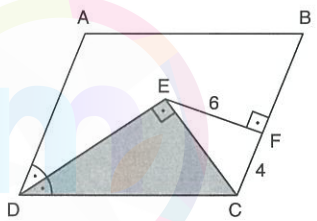
3.



ABCD paralelkenar
ABCD parallelogram
$A(AFB) = 16\,br^2$
$A(FEC) = 4\,br^2$
$\Rightarrow A(ABCD) = ?$

A) 24 B) 36 C) 48 D) 72 E) 96

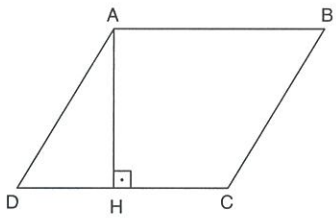
4.



ABCD paralelkenar
ABCD parallelogram
[EF] ⊥ [BC]
[DE] ⊥ [CE]
[DE] açıortay
[DE] bisector
$|FC| = 4$ br
$|EF| = 6$ br
$\Rightarrow A(EDC) = ?$

A) 39 B) 24 C) 18 D) 13 E) 12

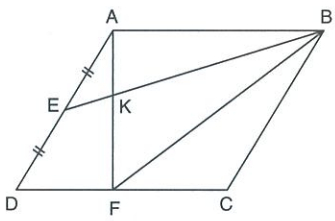
5.



ABCD paralelkenar
ABCD parallelogram
[AH] ⊥ [DC]
$m(\widehat{ABC}) = 2m(\widehat{DAH})$
$|DH| = 3$ br
$|HC| = 5$ br
$\Rightarrow$ Ç(ABCD) = ?

A) 15 B) 24 C) 28 D) 32 E) 48

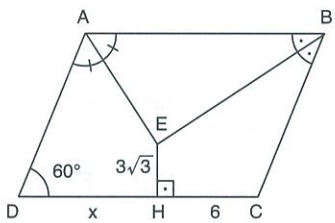
6.



ABCD paralelkenar
ABCD parallelogram
$|AE| = |ED|$
$A(AEK) = 4$ br
$A(BKF) = 12\,br^2$
$\Rightarrow A(ABK) = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

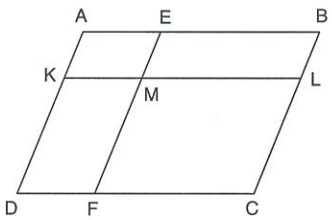
7.



ABCD paralelkenar
ABCD parallelogram
[AE] ve [BE] açıortay
[AE] and [BE] bisector
[EH] ⊥ [DC]
$m(\widehat{ADC}) = 60°$
$|EH| = 3\sqrt{3}$ br
$|HC| = 6$ br
$\Rightarrow |DH| = x = ?$

A) 15 B) 12 C) 9 D) 6 E) 3

8.

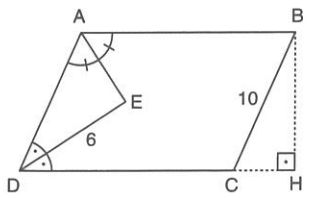


ABCD paralelkenar
ABCD parallelogram
[KL] // [DC]
[EF] // [AD]
$|CL| = 3|BL|$
$A(AEMK) = 7\,br^2$
$A(MLCF) = 42\,br^2$
$A(EBLM) = S_1$
$A(KMFD) = S_2$
$\Rightarrow S_1 + S_2 = ?$

A) 49 B) 42 C) 40 D) 35 E) 32

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

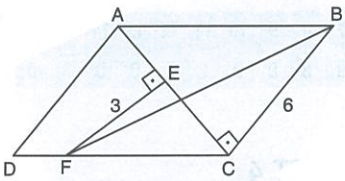
9.



ABCD paralelkenar
ABCD parallelogram
[AE] ve [DE] açıortay
[AE] and [DE] bisector
$|BC| = 10$ br
$|DE| = 6$ br
$[BH] \perp [DC]$
$\Rightarrow |BH| = ?$

A) 2,4 B) 4,8 C) 6 D) 8 E) 9,6

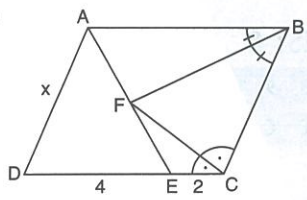
10.



ABCD paralelkenar
ABCD parallelogram
$[EF] \perp [AC]$
$[AC] \perp [BC]$
[BF] açıortay
[BF] bisector
$|EF| = 3$ br
$|BC| = 6$ br
$\Rightarrow |AE| = ?$

A) $\frac{3\sqrt{3}}{2}$ B) 3 C) $3\sqrt{3}$ D) 6 E) 9

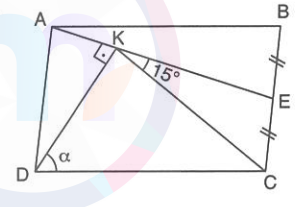
11.



ABCD paralelkenar
ABCD parallelogram
[BF] ve [CF] açıortay
[BF] ve [CF] bisector
$|EC| = 2$ br
$|DE| = 4$ br
$\Rightarrow |AD| = x = ?$

A) 12 B) 8 C) 6 D) 5 E) 4

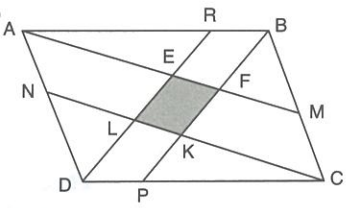
12.



ABCD paralelkenar
ABCD parallelogram
$|BE| = |EC|$
$[DK] \perp [AE]$
$m(\widehat{CKE}) = 15°$
$\Rightarrow m(\widehat{KDC}) = \alpha = ?$

A) 75 B) 60 C) 45 D) 30 E) 15

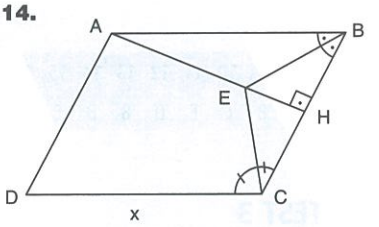
13.



ABCD paralelkenar
ABCD parallelogram
$|ND| = 2|NA|$
$|PC| = 2|PD|$
$\Rightarrow \frac{A(ABCD)}{A(EFKL)} = ?$

A) 4 B) 6 C) 8 D) 12 E) 13

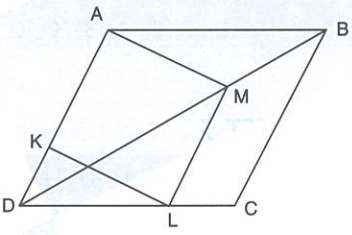
14.



ABCD paralelkenar
ABCD parallelogram
$[AH] \perp [BC]$
[BE] ve [CE] açıortay
[BE] and [CE] bisector
$|BH| = 6$ br
$|HC| = \frac{3}{2}$ br
$\Rightarrow |DC| = x = ?$

A) 15 B) 12 C) 10 D) 8 E) 6

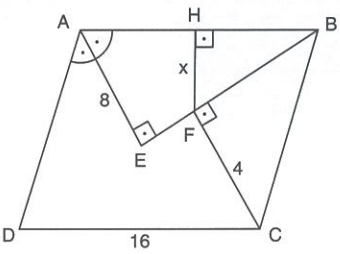
15.



ABCD paralelkenar
ABCD parallelogram
KLMA kare
KLMA square
$|BC| = 9$ br
$|KD| = 4$ br
$\Rightarrow A(ABCD) = ?$

A) 54 B) 64 C) 72 D) 81 E) 90

16.



ABCD paralelkenar
ABCD parallelogram
$[FH] \perp [AB]$
$[CF] \perp [EB]$
$[AE] \perp [EB]$
$|AE| = 8$ br
$|CF| = 4$ br
$|DC| = 16$ br
$\Rightarrow |HF| = x = ?$

A) $2\sqrt{3}$ B) 4 C) $4\sqrt{3}$ D) 6 E) $6\sqrt{3}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

PARALELKENAR PARALLELOGRAM

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	E	B	D	D	A	C	D	B	C	E	D	B	B	E	A

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	E	E	C	A	A	B	B	D	D	C	C	D	D	B	D

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	C	B	D	B	A	A	C	B	D	C	C	D	C	A

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	D	C	B	B	B	D	E	B	C	C	E	A	E	A

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	B	E	E	D	A	C	C	C	B	A	B	C	C	E

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	E	B	E	A	C	B	C	B	A	B	A	C	B	B	B

TEST 7

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	E	C	A	C	D	A	B	D	B	D	C	B	D	D

TEST 8

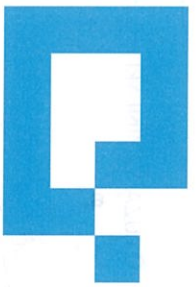
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	E	A	A	D	C	C	C	C	B	B	B	D	A	C

TEST 9

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	E	C	A	D	E	C	E	A	D	C	B	E	E	A

TEST 10

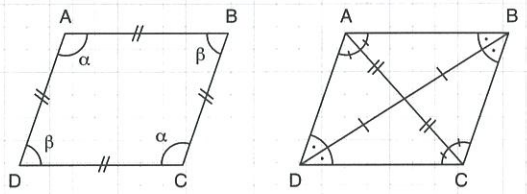
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	C	A	C	A	B	D	E	C	B	A	E	C	D	A



EŞKENAR DÖRTGEN

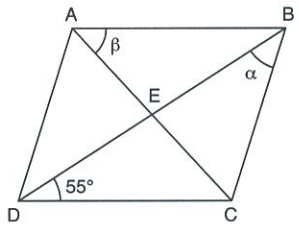
RHOMBUS

ÖZELLİK | Property 1



$\alpha + \beta = 180°$

1.



ABCD eşkenar dörtgen

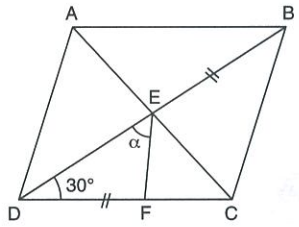
ABCD rhombus

$\Rightarrow \alpha = ?$

$\Rightarrow \beta = ?$

55, 35

2.



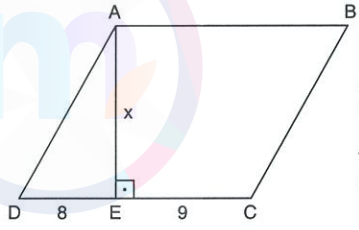
ABCD eşkenar dörtgen

ABCD rhombus

$\Rightarrow \alpha = ?$

75

3.



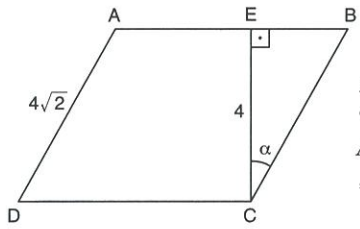
ABCD eşkenar dörtgen

ABCD rhombus

$\Rightarrow x = ?$

15

4.



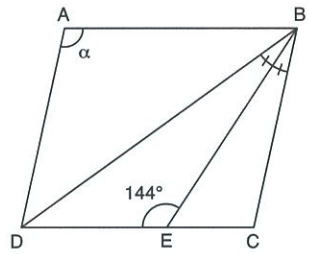
ABCD eşkenar dörtgen

ABCD rhombus

$\Rightarrow \alpha = ?$

45

5.



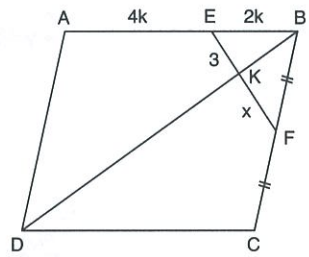
ABCD eşkenar dörtgen

ABCD rhombus

$\Rightarrow \alpha = ?$

132

6.



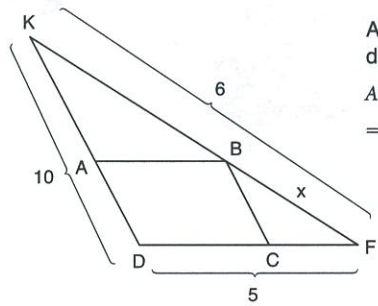
ABCD eşkenar dörtgen

ABCD rhombus

$\Rightarrow x = ?$

4,5

7.



ABCD eşkenar dörtgen

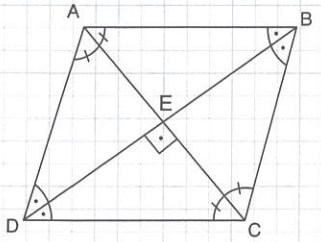
ABCD rhombus

$\Rightarrow x = ?$

2

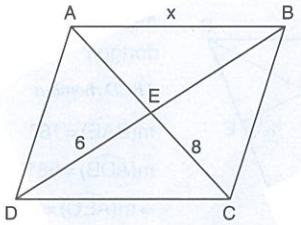
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK | Property 2



[AC] ⊥ [BD]

1.



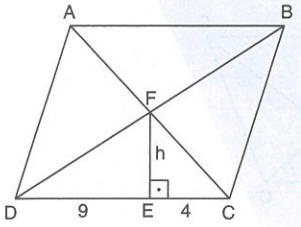
ABCD eşkenar dörtgen

ABCD rhombus

⇒ x = ?

10

2.



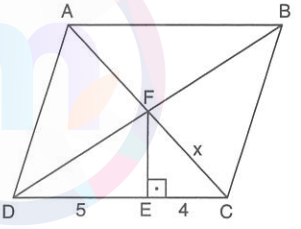
ABCD eşkenar dörtgen

ABCD rhombus

⇒ h = ?

6

3.



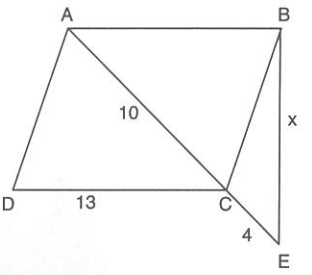
ABCD eşkenar dörtgen

ABCD rhombus

⇒ x = ?

6

4.



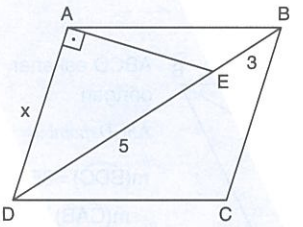
ABCD eşkenar dörtgen

ABCD rhombus

⇒ x = ?

15

5.



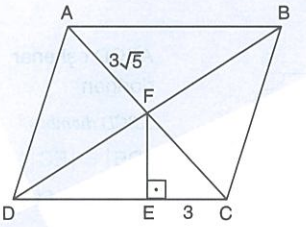
ABCD eşkenar dörtgen

ABCD rhombus

⇒ x = ?

$2\sqrt{5}$

6.



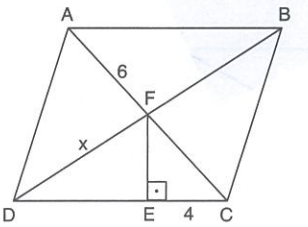
ABCD eşkenar dörtgen

ABCD rhombus

⇒ A(ABCD) = ?

180

7.



ABCD eşkenar dörtgen

ABCD rhombus

⇒ x = ?

$3\sqrt{5}$

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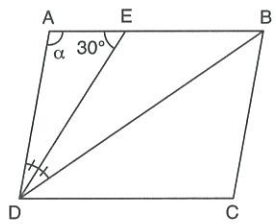
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



ABCD eşkenar dörtgen

ABCD rhombus

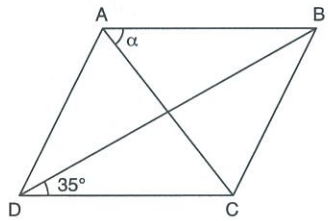
$m(\widehat{AED}) = 30°$

$m(\widehat{ADE}) = m(\widehat{EDB})$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 110 B) 120 C) 130 D) 140 E) 145

2.



ABCD eşkenar dörtgen

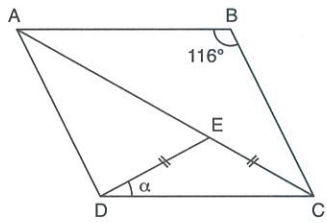
ABCD rhombus

$m(\widehat{BDC}) = 35°$

$\Rightarrow m(\widehat{CAB}) = \alpha = ?$

A) 35 B) 50 C) 55 D) 65 E) 70

3.



ABCD eşkenar dörtgen

ABCD rhombus

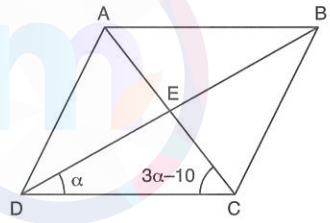
$|DE| = |EC|$

$m(\widehat{ABC}) = 116°$

$\Rightarrow m(\widehat{EDC}) = \alpha = ?$

A) 16 B) 24 C) 32 D) 40 E) 48

4.



ABCD eşkenar dörtgen

ABCD rhombus

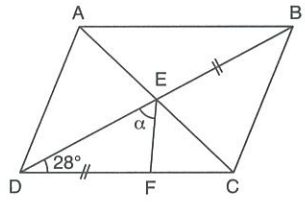
$m(\widehat{ACD}) = 3\alpha - 10°$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 15 B) 25 C) 30 D) 32 E) 35

PUZA YAYINLARI

5.



ABCD eşkenar dörtgen

ABCD rhombus

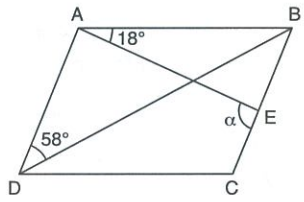
$|BE| = |DF|$

$m(\widehat{BDC}) = 28°$

$\Rightarrow m(\widehat{DEF}) = \alpha = ?$

A) 24 B) 76 C) 86 D) 96 E) 124

6.



ABCD eşkenar dörtgen

ABCD rhombus

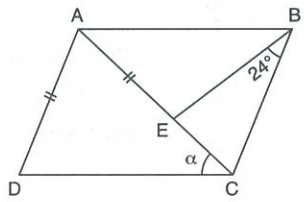
$m(\widehat{BAE}) = 18°$

$m(\widehat{ADB}) = 58°$

$\Rightarrow m(\widehat{AEC}) = \alpha = ?$

A) 66 B) 76 C) 88 D) 116 E) 134

7.



ABCD eşkenar dörtgen

ABCD rhombus

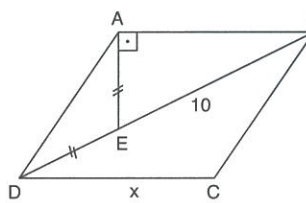
$m(\widehat{EBC}) = 24°$

$|AE| = |AD|$

$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 20 B) 30 C) 44 D) 48 E) 68

8.



ABCD eşkenar dörtgen

ABCD rhombus

$[AE] \perp [AB]$

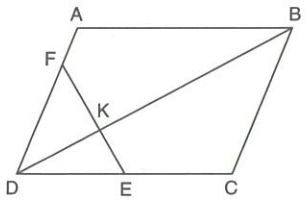
$|AE| = |DE|$

$|EB| = 10$ br

$\Rightarrow |DC| = x = ?$

A) 5 B) $5\sqrt{3}$ C) 10 D) $10\sqrt{3}$ E) 20

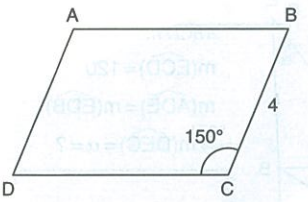
9.



ABCD eşkenar dörtgen
ABCD rhombus
$3|AF| = |DF|$
$2|AF| = |EC|$
$|FK| = 6$ br
$\Rightarrow |KE| = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

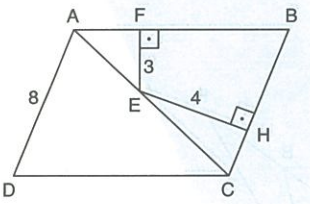
10.



ABCD eşkenar dörtgen
ABCD rhombus
$m(\widehat{BCD}) = 150°$
$|BC| = 4$ br
$\Rightarrow A(ABCD) = ?$

A) 4 B) $4\sqrt{3}$ C) 8 D) $8\sqrt{3}$ E) 16

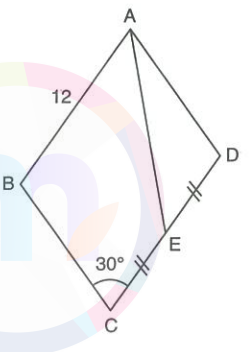
11.



ABCD eşkenar dörtgen
ABCD rhombus
$|AD| = 8$ br
$|EF| = 3$ br
$|EH| = 4$ br
$[AB] \perp [EF]$
$[BC] \perp [EH]$
$\Rightarrow A(ABCD) = ?$

A) 28 B) 35 C) 42 D) 49 E) 56

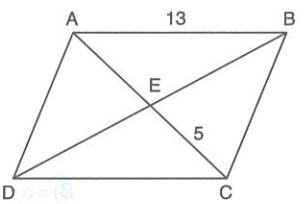
12.



ABCD eşkenar dörtgen
ABCD rhombus
$|AB| = 12$ br
$|DE| = |EC|$
$m(\widehat{BCD}) = 30°$
$\Rightarrow A(AED) = ?$

A) 114 B) 72 C) 54 D) 36 E) 18

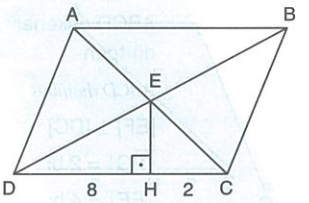
13.



ABCD eşkenar dörtgen
ABCD rhombus
$|AB| = 13$ br
$|CE| = 5$ br
$\Rightarrow A(ABCD) = ?$

A) 120 B) 112 C) 100 D) 90 E) 60

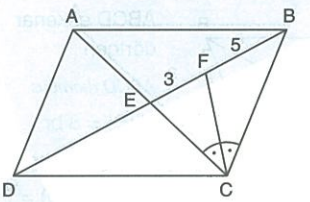
14.



ABCD eşkenar dörtgen
ABCD rhombus
$[EH] \perp [DC]$
$|DH| = 8$ br
$|HC| = 2$ br
$\Rightarrow A(ABCD) = ?$

A) 160 B) 140 C) 100 D) 80 E) 70

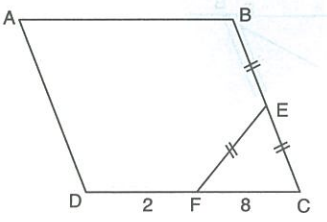
15.



ABCD eşkenar dörtgen
ABCD rhombus
$m(\widehat{ACF}) = m(\widehat{FCB})$
$|EF| = 3$ br
$|FB| = 5$ br
$\Rightarrow A(ABCD) = ?$

A) 24 B) $24\sqrt{2}$ C) 48 D) $48\sqrt{2}$ E) 96

16.

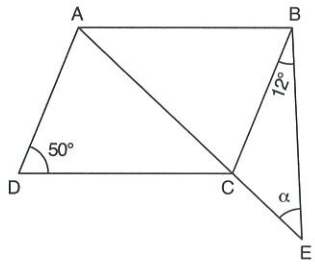


ABCD eşkenar dörtgen
ABCD rhombus
$|EB| = |EC| = |EF|$
$|FC| = 8$ br
$|DF| = 2$ br
$\Rightarrow A(ABCD) = ?$

A) 20 B) 30 C) 45 D) 60 E) 80

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

1.



ABCD eşkenar dörtgen

ABCD rhombus

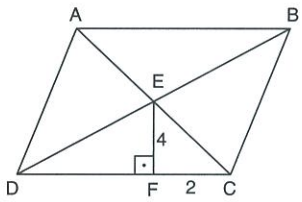
$m(\widehat{CBE}) = 12°$

$m(ADC) = 50°$

$\Rightarrow m(\widehat{AEB}) = \alpha = ?$

A) 38 B) 53 C) 62 D) 88 E) 148

2.



ABCD eşkenar dörtgen

ABCD rhombus

$[EF] \perp [DC]$

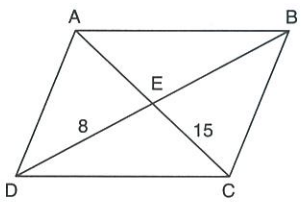
$|FC| = 2$ br

$|EF| = 4$ br

$\Rightarrow$ Ç(ABCD) = ?

A) 8 B) 10 C) 32 D) 40 E) 48

3.



ABCD eşkenar dörtgen

ABCD rhombus

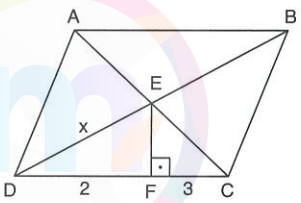
$|DE| = 8$ br

$|EC| = 15$ br

$\Rightarrow$ Ç(ABCD) = ?

A) 34 B) 68 C) 72 D) 78 E) 96

4.



ABCD eşkenar dörtgen

ABCD rhombus

$[EF] \perp [DC]$

$|DF| = 2$ br

$|FC| = 3$ br

$\Rightarrow |DE| = x = ?$

A) 2 B) $\sqrt{6}$ C) $\sqrt{10}$ D) $\sqrt{13}$ E) 4

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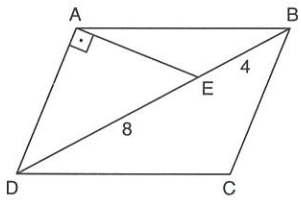
5.



ABCD eşkenar dörtgen

ABCD rhombus

$[EA] \perp [AD]$

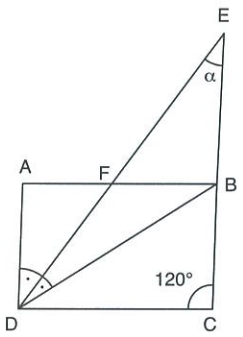
$|DE| = 8$ br

$|EB| = 4$ br

$\Rightarrow |AE| = x = ?$

A) $2\sqrt{3}$ B) 4 C) 6 D) $4\sqrt{6}$ E) 10

6.



ABCD eşkenar dörtgen

ABCD rhombus

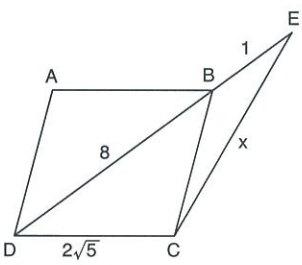
$m(\widehat{ECD}) = 120°$

$m(\widehat{ADE}) = m(\widehat{EDB})$

$\Rightarrow m(\widehat{DEC}) = \alpha = ?$

A) 15 B) 20 C) 25 D) 30 E) 40

7.



ABCD eşkenar dörtgen

ABCD rhombus

$|DB| = 8$ br

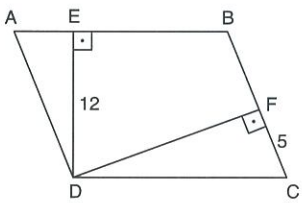
$|BE| = 1$ br

$|DC| = 2\sqrt{5}$ br

$\Rightarrow |CE| = x = ?$

A) $2\sqrt{5}$ B) $\sqrt{23}$ C) 5 D) $\sqrt{29}$ E) 6

8.



ABCD eşkenar dörtgen

ABCD rhombus

$[DE] \perp [AB]$

$[DF] \perp [BC]$

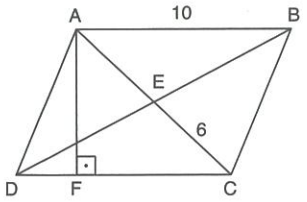
$|DE| = 12$ br

$|FC| = 5$ br

$\Rightarrow |EB| = x = ?$

A) 15 B) 13 C) 10 D) 8 E) 5

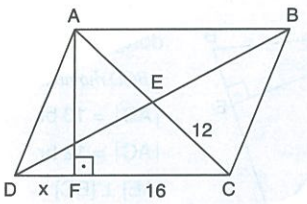
9.



ABCD eşkenar dörtgen
ABCD rhombus
$|AB| = 10$ br
$|EC| = 6$ br
$[AF] \perp [DC]$
$\Rightarrow |AF| = ?$

A) 2,4 B) 4,8 C) 7,2 D) 9,6 E) 10,8

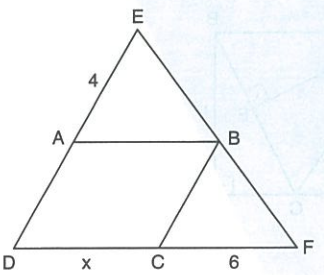
10.



ABCD eşkenar dörtgen
ABCD rhombus
$[AF] \perp [DC]$
$|EC| = 12$ br
$|FC| = 16$ br
$\Rightarrow |DF| = x = ?$

A) 6 B) 5 C) 4 D) 3 E) 2

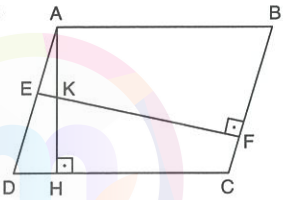
11.



ABCD eşkenar dörtgen
ABCD rhombus
$|EA| = 4$ br
$|CF| = 6$ br
$\Rightarrow |DC| = x = ?$

A) 2 B) 3 C) $2\sqrt{3}$ D) 4 E) $2\sqrt{6}$

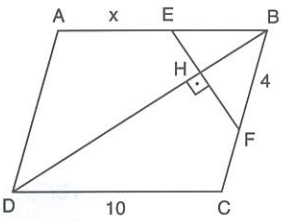
12.



ABCD eşkenar dörtgen
ABCD rhombus
$m(\widehat{ABC}) = 60°$
$[EF] \perp [BC]$
$[AH] \perp [DC]$
$|HK| = 4$ br
$|KF| = 6$ br
$\Rightarrow |AK| = ?$

A) $\frac{1}{\sqrt{3}}$ B) 1 C) $\sqrt{3}$ D) $2\sqrt{3}$ E) 4

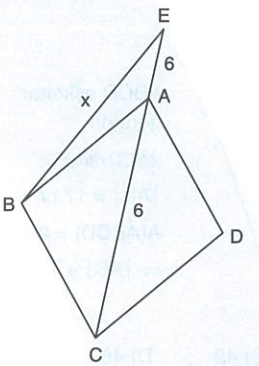
13.



ABCD eşkenar dörtgen
ABCD rhombus
$[EF] \perp [DB]$
$|BF| = 4$ br
$|DC| = 10$ br
$\Rightarrow |AE| = x = ?$

A) 2 B) 4 C) 6 D) 7 E) 8

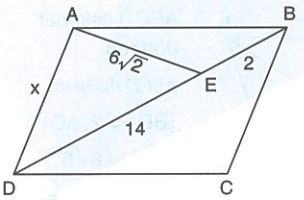
14.



ABCD eşkenar dörtgen
ABCD rhombus
$|AC| = 6$ br
$|AE| = 6$ br
$A(ABCD) = 24$ br^2
$\Rightarrow |BE| = x = ?$

A) 5 B) $\sqrt{97}$ C) $\sqrt{107}$ D) $4\sqrt{10}$ E) 20

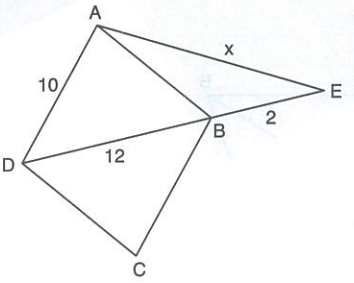
15.



ABCD eşkenar dörtgen
ABCD rhombus
$|AE| = 6\sqrt{2}$ br
$|DE| = 14$ br
$|EB| = 2$ br
$\Rightarrow |AD| = x = ?$

A) 15 B) 12 C) 10 D) 8 E) 6

16.



ABCD eşkenar dörtgen
ABCD rhombus
$|AD| = 10$ br
$|DB| = 12$ br
$|BE| = 2$ br
$\Rightarrow |AE| = x = ?$

A) 10 B) $8\sqrt{2}$ C) 8 D) $6\sqrt{2}$ E) 6

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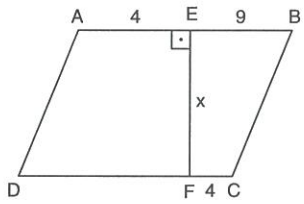
PUZA YAYINLARI
PUZA YAYINLARI

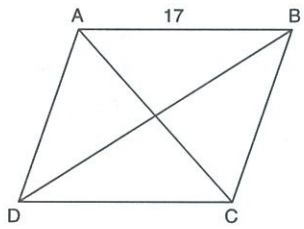
1.



ABCD eşkenar dörtgen
ABCD rhombus
[FE] ⊥ [AB]
|AE| = 4 br
|EB| = 9 br
|FC| = 4 br
⇒ |EF| = x = ?

A) 7 B) 9 C) 12 D) 13 E) 15

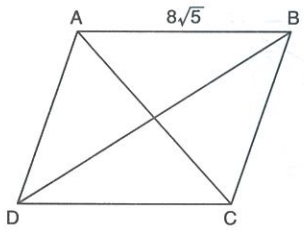
2.



ABCD eşkenar dörtgen
ABCD rhombus
|AB| = 17 br
A(ABCD) = 240 br²
⇒ |AC| + |BD| = ?

A) 23 B) 34 C) 42 D) 46 E) 52

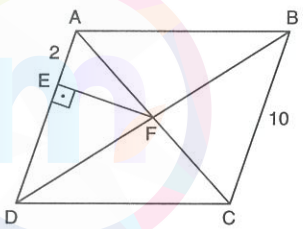
3.



ABCD eşkenar dörtgen
ABCD rhombus
|BD| = 2|AC|
|AB| = 8√5
⇒ A(ABCD) = ?

A) 32 B) 64 C) 128 D) 256 E) 512

4.



ABCD eşkenar dörtgen
ABCD rhombus
[EF] ⊥ [AD]
|EA| = 2 br
|BC| = 10 br
⇒ A(ABCD) = ?

A) 20 B) 40 C) 60 D) 80 E) 100

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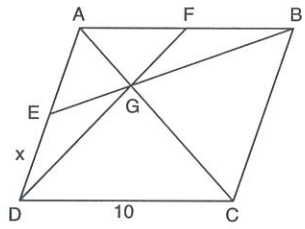
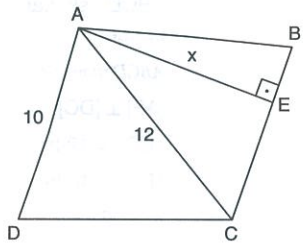
5.



ABCD eşkenar dörtgen
ABCD rhombus
2|AF| = 3|FB|
|DC| = 10 br
⇒ |ED| = x = ?

A) 2 B) 3 C) 4 D) 6 E) 8

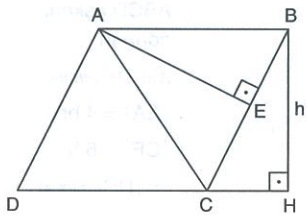
6.



ABCD eşkenar dörtgen
ABCD rhombus
|AD| = 10 br
|AC| = 12 br
[AE] ⊥ [BC]
⇒ |AE| = x = ?

A) 1,2 B) 2,4 C) 4,8 D) 9,6 E) 10,4

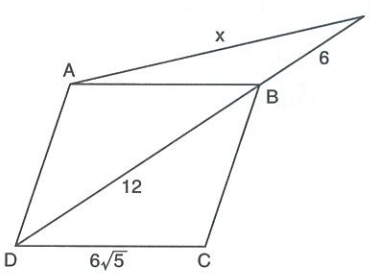
7.



ABCD eşkenar dörtgen
ABCD rhombus
[AE] ⊥ [BC]
[BH] ⊥ [DH]
|BE| = 9 br
|AD| = 15 br
⇒ |BH| = h = ?

A) 25 B) 20 C) 15 D) 12 E) 9

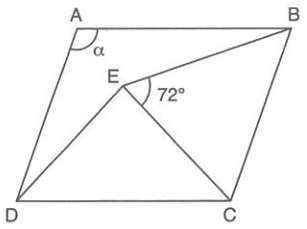
8.



ABCD eşkenar dörtgen
ABCD rhombus
|DB| = 12 br
|DC| = 6√5 br
|BE| = 6 br
⇒ |AE| = x = ?

A) 6 B) 6√2 C) 9 D) 12 E) 12√2

9.



ABCD eşkenar dörtgen

ABCD rhombus

EDC eşkenar üçgen

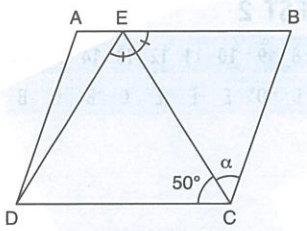
ADE equilateral triangle

$m(\widehat{BEC}) = 72°$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 54 B) 72 C) 96 D) 108 E) 144

10.



ABCD eşkenar dörtgen

ABCD rhombus

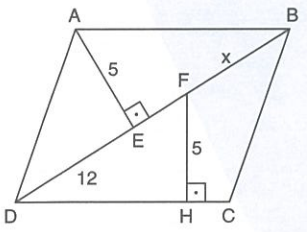
$m(\widehat{ECD}) = 50°$

$m(\widehat{DEC}) = m(\widehat{CEB})$

$\Rightarrow m(\widehat{ECB}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 70

11.



ABCD eşkenar dörtgen

ABCD rhombus

$[AE] \perp [DB]$

$[FH] \perp [DC]$

$|AE| = 5$ br

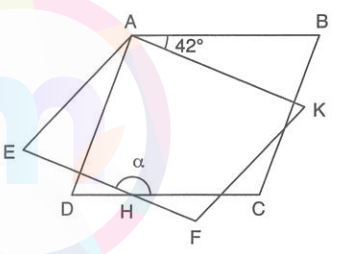
$|DE| = 12$ br

$|FH| = 5$ br

$\Rightarrow |FB| = x = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

12.



ABCD ve EAKF eşkenar dörtgen

ABCD and EAKF rhombus

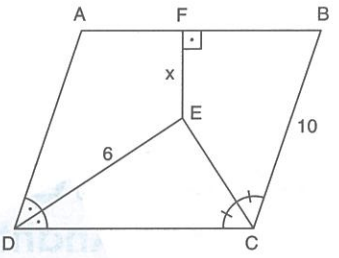
$m(\widehat{BAK}) = 42°$

$m(\widehat{EFK}) = 120°$

$\Rightarrow m(\widehat{EHC}) = \alpha = ?$

A) 112 B) 124 C) 128 D) 132 E) 138

13.



ABCD eşkenar dörtgen

ABCD rhombus

$[EF] \perp [AB]$

$|BC| = 10$ br

$|DE| = 6$ br

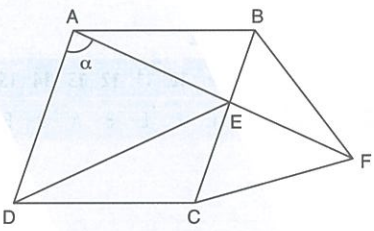
$m(\widehat{ADE}) = m(\widehat{EDC})$

$m(\widehat{DCE}) = m(\widehat{ECB})$

$\Rightarrow |EF| = x = ?$

A) 3,6 B) 4,8 C) 5,2 D) 6,8 E) 7,2

14.



ABCD eşkenar dörtgen

ABCD rhombus

BCF eşkenar üçgen

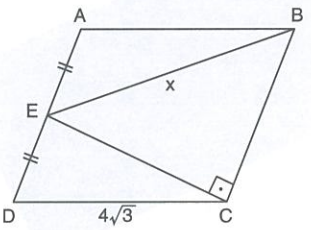
BCF equilateral triangle

$m(\widehat{DCF}) = 140°$

$\Rightarrow m(\widehat{DAF}) = \alpha = ?$

A) 70 B) 60 C) 55 D) 50 E) 45

15.



ABCD eşkenar dörtgen

ABCD rhombus

$|AE| = |ED|$

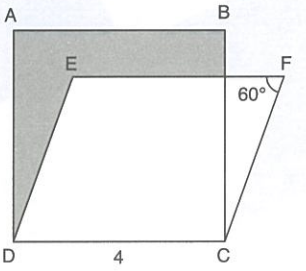
$[EC] \perp [BC]$

$|DC| = 4\sqrt{3}$

$\Rightarrow |EB| = x = ?$

A) $2\sqrt{21}$ B) 9 C) $6\sqrt{2}$ D) $4\sqrt{3}$ E) 6

16.



ABCD kare

ABCD square

EFCD eşkenar dörtgen

EFCD rhombus

$m(\widehat{EFC}) = 60°$

$|DC| = 4$ br

$\Rightarrow$ Taralı Alan = ?

Shaded Area = ?

A) $18 - 6\sqrt{3}$ B) $16 - 6\sqrt{3}$ C) $18 - \frac{27\sqrt{3}}{4}$ D) $9 - 3\sqrt{3}$ E) 9

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EŞKENAR DÖRTGEN RHOMBUS

Yanıt Anahtarı Answer Key

TEST 1

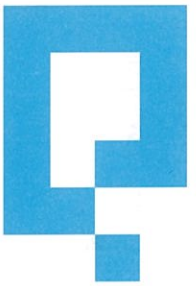
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	C	B	B	E	C	B	C	C	E	E	A	D	E	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	B	C	B	A	D	D	D	E	E	E	C	B	C	B

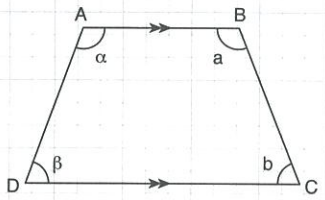
TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	D	D	D	C	D	D	E	C	B	D	E	B	A	A	B



YAMUK
TRAPEZOID

ÖZELLİK|Property 1



ABCD yamuk

ABCD trapezoid

[AB] // [DC]

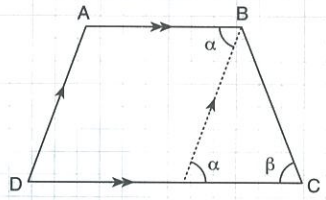
$\alpha + \beta = 180°$

$a + b = 180°$

Yamukta verilen açılar; 30°, 45°, 60°, 120°, 135° ve 150°'lik açılar ise tabana dik indirilerek pisagor ile çözüm yapılır.

If the angles given for the trapezium are the angles such as (30°, 45°, 60°, 120°, 135°, 150°), then they are solved by drawing a perpendicular bisector.

ÖZELLİK|Property 2



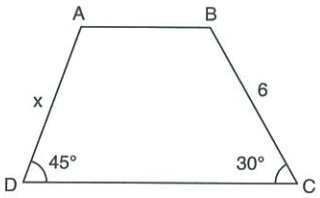
ABCD yamuk

ABCD trapezoid

Yamukta verilen açılar; 30°, 45°, 60°, 120°, 135° ve 150°'lik açılardan farklı ise şekildeki gibi kenara paralel çizilerek çözüm yapılır.

If the angles given for the trapezium are different from the angles such as (30°, 45°, 60°, 120°, 135°, 150°), then they are solved by drawing a parallel line as indicated in the figure.

1.



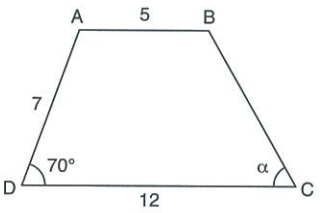
ABCD yamuk

ABCD trapezoid

$\Rightarrow x = ?$

$3\sqrt{2}$

1.



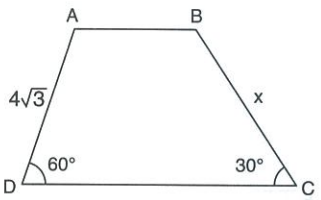
ABCD yamuk

ABCD trapezoid

$\Rightarrow \alpha = ?$

55

2.



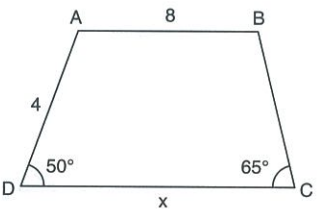
ABCD yamuk

ABCD trapezoid

$\Rightarrow x = ?$

12

2.



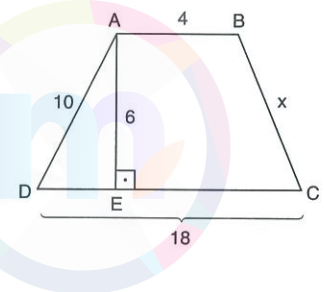
ABCD yamuk

ABCD trapezoid

$\Rightarrow x = ?$

12

3.



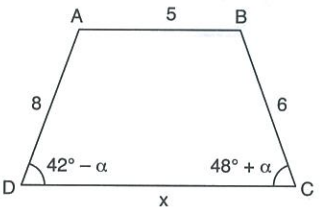
ABCD yamuk

ABCD trapezoid

$\Rightarrow x = ?$

$6\sqrt{2}$

3.



ABCD yamuk

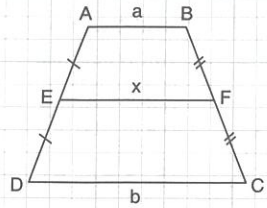
ABCD trapezoid

$\Rightarrow x = ?$

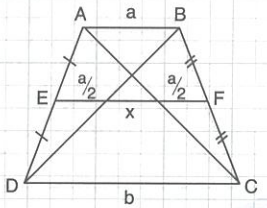
15

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 3

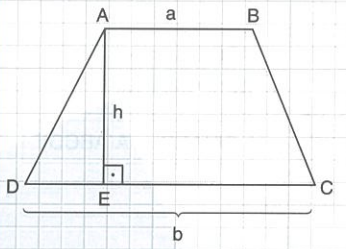


$$x = \frac{a+b}{2}$$



$$x = \frac{b-a}{2}$$

ÖZELLİK|Property 4

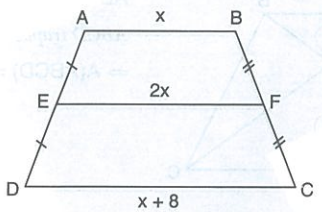


ABCD yamuk

ABCD trapezoid

$$A(ABCD) = \frac{a+b}{2} \cdot h$$

1.



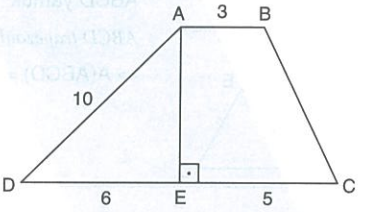
ABCD yamuk

ABCD trapezoid

⇒ x = ?

4

1.



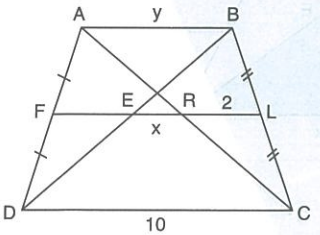
ABCD yamuk

ABCD trapezoid

⇒ A(ABCD) = ?

56

2.



ABCD yamuk

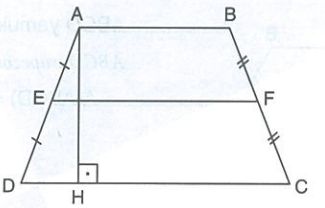
ABCD trapezoid

⇒ x = ?

⇒ y = ?

3, 4

2.



ABCD yamuk

ABCD trapezoid

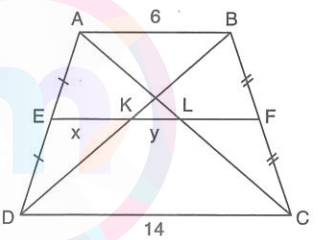
|EF| = 4 br

|AH| = 8 br

⇒ A(ABCD) = ?

32

3.



ABCD yamuk

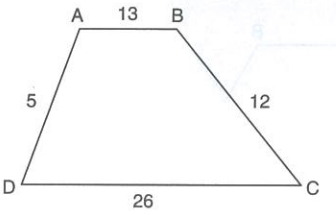
ABCD trapezoid

⇒ x = ?

⇒ y = ?

3, 4

3.



ABCD yamuk

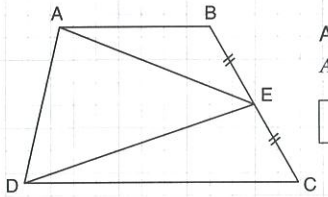
ABCD trapezoid

⇒ A(ABCD) = ?

90

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

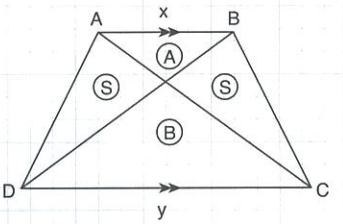
ÖZELLİK|Property 5



ABCD yamuk
ABCD trapezoid

$2A(AED) = A(ABCD)$

ÖZELLİK|Property 6

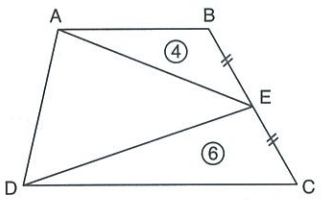


ABCD yamuk
ABCD trapezoid

$\left(\frac{x}{y}\right)^2 = \frac{A}{B}$

$S \cdot S = A \cdot B$

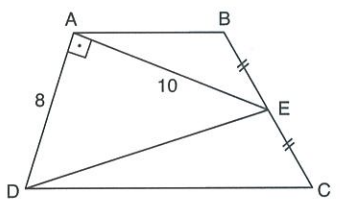
1.



ABCD yamuk
ABCD trapezoid
⇒ A(ABCD) = ?

20

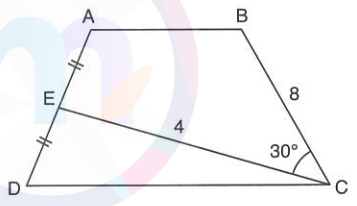
2.



ABCD yamuk
ABCD trapezoid
⇒ A(ABCD) = ?

80

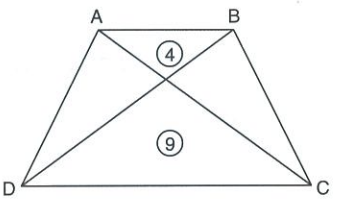
3.



ABCD yamuk
ABCD trapezoid
⇒ A(ABCD) = ?

16

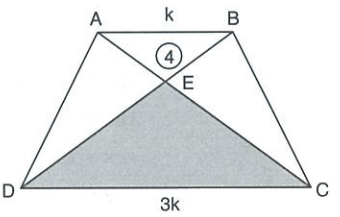
1.



ABCD yamuk
ABCD trapezoid
⇒ A(ABCD) = ?

25

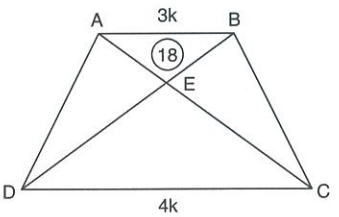
2.



ABCD yamuk
ABCD trapezoid
⇒ A(EDC) = ?

36

3.

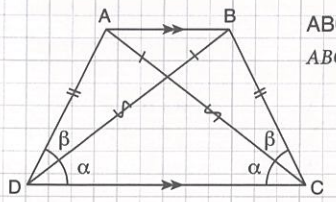


ABCD yamuk
ABCD trapezoid
⇒ A(ABCD) = ?

98

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 7



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$m(\widehat{A}) = m(\widehat{B})$

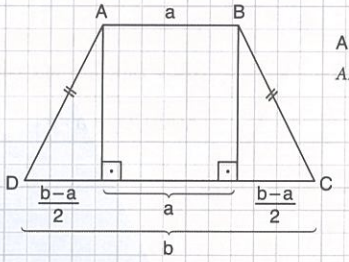
$m(\widehat{D}) = m(\widehat{C})$

$m(\widehat{A}) + m(\widehat{D}) = 180°$

$m(\widehat{B}) + m(\widehat{C}) = 180°$

$|BD| = |AC|$

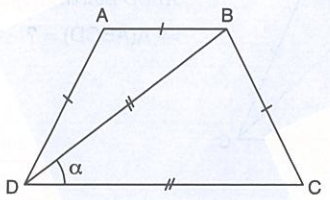
ÖZELLİK|Property 8



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

1.



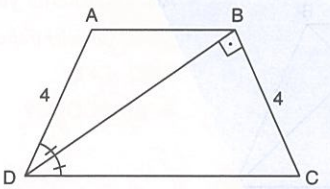
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\Rightarrow \alpha = ?$

36

2.



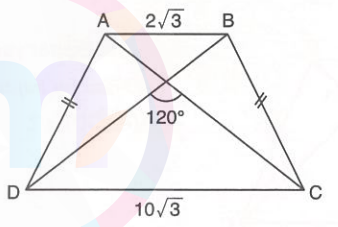
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\Rightarrow A(DBC) = ?$

$8\sqrt{3}$

3.



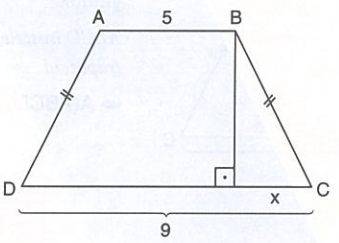
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\Rightarrow$ A(ABCD) = ?

$36\sqrt{3}$

1.



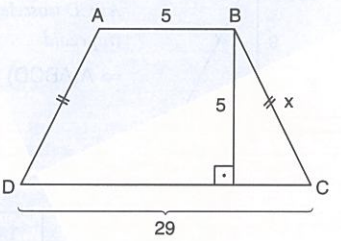
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\Rightarrow x = ?$

2

2.



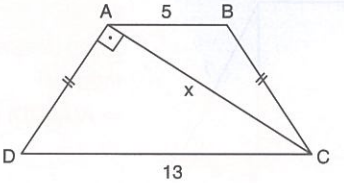
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\Rightarrow x = ?$

13

3.



ABCD ikizkenar yamuk

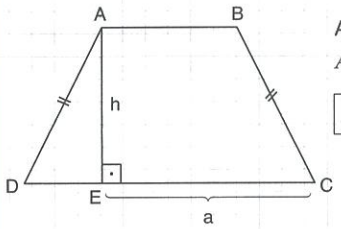
ABCD isosceles trapezoid

$\Rightarrow x = ?$

$3\sqrt{13}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 9

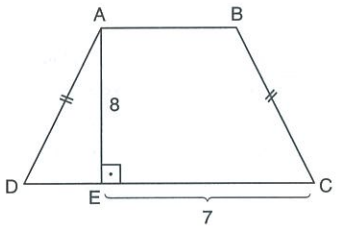


ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$A(ABCD) = a \cdot h$

1.



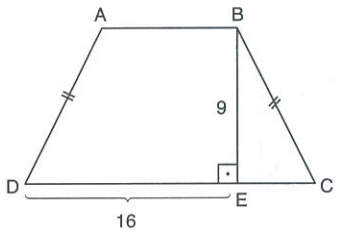
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\Rightarrow A(ABCD) = ?$

56

2.



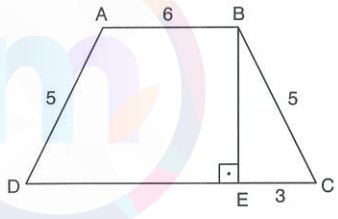
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\Rightarrow A(ABCD) = ?$

144

3.



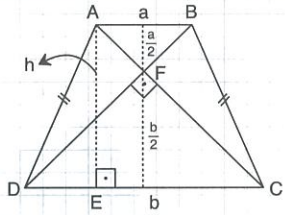
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\Rightarrow A(ABCD) = ?$

36

ÖZELLİK|Property 10



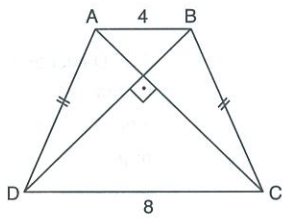
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$h = \frac{a+b}{2}$

$A(ABCD) = \left(\frac{a+b}{2}\right)^2 = h^2$

1.



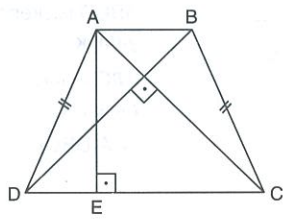
ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\Rightarrow A(ABCD) = ?$

36

2.



ABCD ikizkenar yamuk

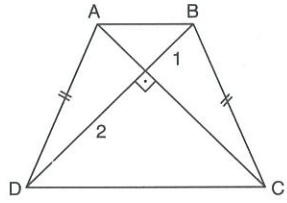
ABCD isosceles trapezoid

$|AE| = 4$ br

$\Rightarrow A(ABCD) = ?$

16

3.



ABCD ikizkenar yamuk

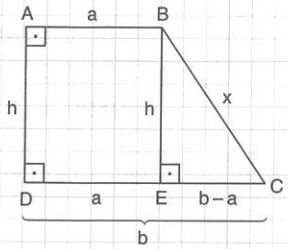
ABCD isosceles trapezoid

$\Rightarrow A(ABCD) = ?$

$\frac{9}{2}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 11

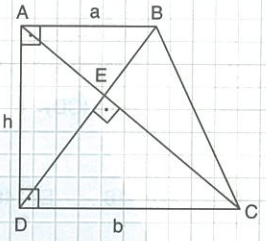


ABCD dik yamuk

ABCD right trapezoid

$h^2 + (b - a)^2 = x^2$

ÖZELLİK|Property 12

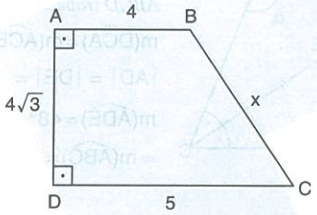


ABCD dik yamuk

ABCD right trapezoid

$h^2 = a \cdot b$

1.



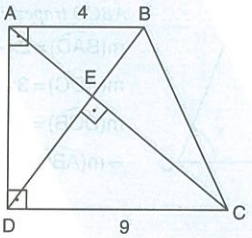
ABCD dik yamuk

ABCD right trapezoid

⇒ x = ?

7

1.



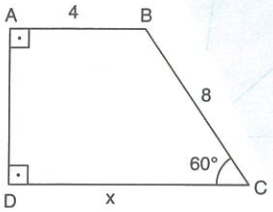
ABCD dik yamuk

ABCD right trapezoid

⇒ A(ABCD) = ?

39

2.



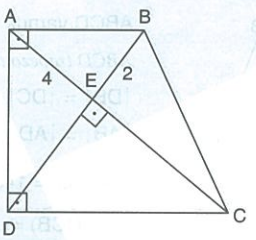
ABCD dik yamuk

ABCD right trapezoid

⇒ x = ?

8

2.



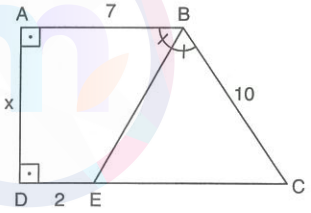
ABCD dik yamuk

ABCD right trapezoid

⇒ A(ABCD) = ?

100

3.



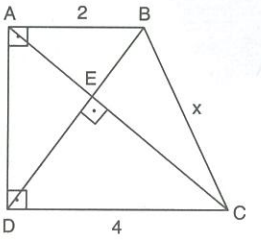
ABCD dik yamuk

ABCD right trapezoid

⇒ x = ?

$5\sqrt{3}$

3.



ABCD dik yamuk

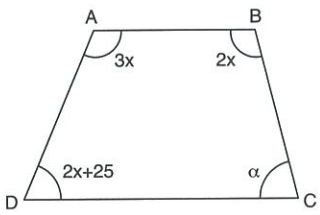
ABCD right trapezoid

⇒ x = ?

$2\sqrt{3}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



ABCD yamuk

ABCD trapezoid

$m(\widehat{ABC}) = 2x$

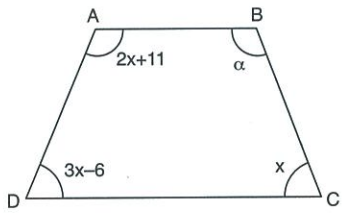
$m(\widehat{BAD}) = 3x$

$m(\widehat{ADC}) = 2x + 25$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 31 B) 62 C) 98 D) 118 E) 149

2.



ABCD yamuk

ABCD trapezoid

$m(\widehat{BAD}) = 2x + 11$

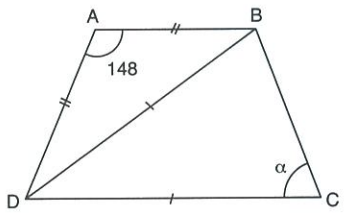
$m(\widehat{ADC}) = 3x - 6$

$m(\widehat{DCB}) = x$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 35 B) 70 C) 81 D) 99 E) 145

3.



ABCD yamuk

ABCD trapezoid

$|DB| = |DC|$

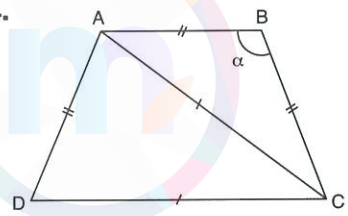
$|AB| = |AD|$

$m(\widehat{DAB}) = 148°$

$\Rightarrow m(\widehat{DCB}) = \alpha = ?$

A) 16 B) 81 C) 82 D) 91 E) 148

4.



ABCD yamuk

ABCD trapezoid

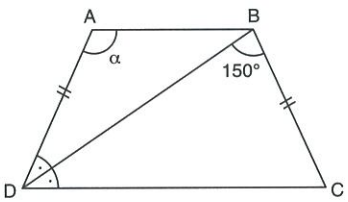
$|AB| = |BC| = |AD|$

$|AC| = |CD|$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 36 B) 54 C) 72 D) 91 E) 144

5.



ABCD yamuk

ABCD trapezoid

$|AD| = |BC|$

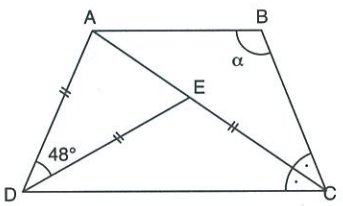
$m(\widehat{ADB}) = m(\widehat{BDC})$

$m(\widehat{DBC}) = 150°$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 160 B) 150 C) 140 D) 130 E) 120

6.



ABCD yamuk

ABCD trapezoid

$m(\widehat{DCA}) = m(\widehat{ACB})$

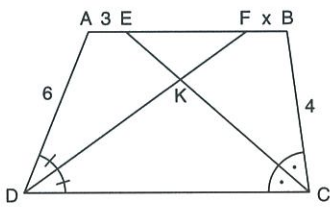
$|AD| = |DE| = |EC|$

$m(\widehat{ADE}) = 48°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 66 B) 81 C) 92 D) 114 E) 122

7.



ABCD yamuk

ABCD trapezoid

$m(\widehat{DCE}) = m(\widehat{ECB})$

$m(\widehat{ADF}) = m(\widehat{FDC})$

$|AD| = 6$ br

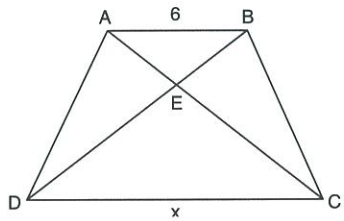
$|BC| = 4$ br

$|AE| = 3$ br

$\Rightarrow |FB| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

8.



ABCD yamuk

ABCD trapezoid

$4|EB| = 3|DE|$

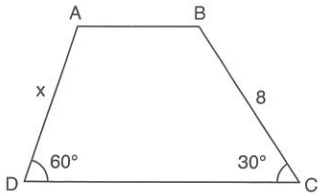
$|AB| = 6$ br

$\Rightarrow |DC| = x = ?$

A) 4 B) 6 C) 8 D) 9 E) 12

PUZA YAYINLARI

9.



ABCD yamuk

ABCD trapezoid

$m(\widehat{ADC}) = 60°$

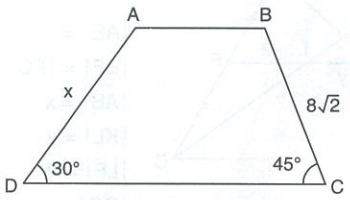
$m(\widehat{BCD}) = 30°$

$|BC| = 8$ br

$\Rightarrow |AD| = x = ?$

A) $\frac{4\sqrt{3}}{3}$ B) $2\sqrt{3}$ C) 4 D) $\frac{8\sqrt{3}}{3}$ E) $8\sqrt{3}$

10.



ABCD yamuk

ABCD trapezoid

$m(\widehat{ADC}) = 30°$

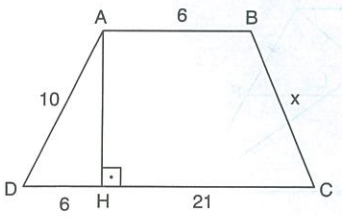
$m(\widehat{BCD}) = 45°$

$|BC| = 8\sqrt{2}$ br

$\Rightarrow |AD| = x = ?$

A) 4 B) $4\sqrt{3}$ C) $8\sqrt{3}$ D) $8\sqrt{6}$ E) 16

11.



ABCD yamuk

ABCD trapezoid

$[AH] \perp [DC]$

$|HC| = 21$ br

$|AB| = 6$ br

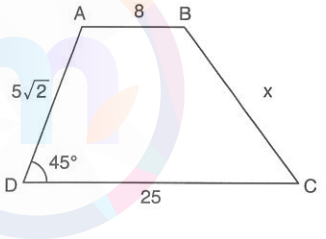
$|AD| = 10$ br

$|DH| = 6$ br

$\Rightarrow |BC| = x = ?$

A) 17 B) 15 C) 13 D) 10 E) 8

12.



ABCD yamuk

ABCD trapezoid

$m(\widehat{ADC}) = 45°$

$|AD| = 5\sqrt{2}$ br

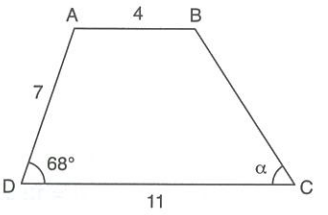
$|AB| = 8$ br

$|DC| = 25$ br

$\Rightarrow |BC| = x = ?$

A) 17 B) 15 C) 13 D) 10 E) 5

13.



ABCD yamuk

ABCD trapezoid

$|AB| = 4$ br

$|AD| = 7$ br

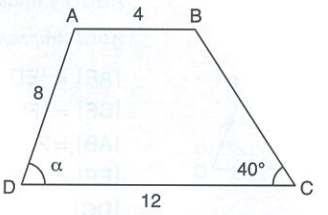
$|DC| = 11$ br

$m(\widehat{ADC}) = 68°$

$\Rightarrow m(\widehat{DCB}) = \alpha = ?$

A) 34 B) 56 C) 68 D) 72 E) 108

14.



ABCD yamuk

ABCD trapezoid

$|AB| = 4$ br

$|AD| = 8$ br

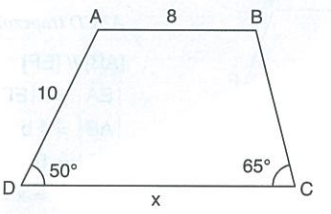
$|DC| = 12$ br

$m(\widehat{BCD}) = 40°$

$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 40 B) 60 C) 80 D) 100 E) 120

15.



ABCD yamuk

ABCD trapezoid

$m(\widehat{ADC}) = 50°$

$m(\widehat{BCD}) = 65°$

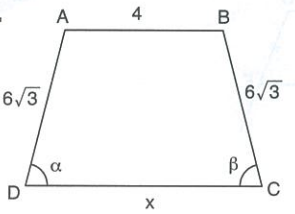
$|AB| = 8$ br

$|AD| = 10$ br

$\Rightarrow |DC| = x = ?$

A) 8 B) 10 C) 12 D) 14 E) 18

16.



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$\alpha + \beta = 120°$

$|AD| = |BC| = 6\sqrt{3}$

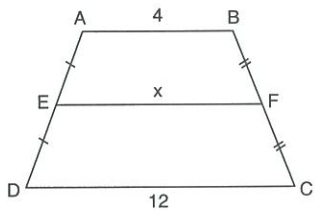
$|AB| = 4$ br

$\Rightarrow |DC| = x = ?$

A) $4\sqrt{3}$ B) $6\sqrt{3}$ C) $10\sqrt{3}$ D) $4+6\sqrt{3}$ E) 24

PUZA YAYINLARI

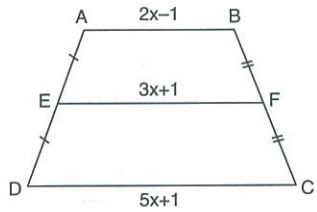
1.



ABCD yamuk
ABCD trapezoid
$|AE| = |ED|$
$|BF| = |FC|$
$|AB| = 4$ br
$|DC| = 12$ br
$\Rightarrow |EF| = x = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

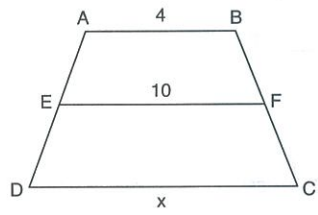
2.



ABCD yamuk
ABCD trapezoid
$|AE| = |ED|$
$|BF| = |FC|$
$|AB| = 2x - 1$
$|EF| = 3x + 1$
$|DC| = 5x + 1$
$\Rightarrow |EF| = ?$

A) 2 B) 3 C) 6 D) 7 E) 10

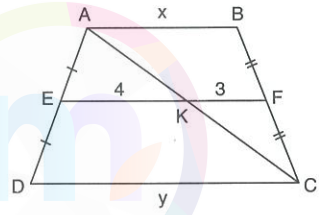
3.



ABCD yamuk
ABCD trapezoid
$[AB] \,//\, [EF]$
$|EA| = 2|ED|$
$|AB| = 4$ br
$|EF| = 10$ br
$\Rightarrow |DC| = x = ?$

A) 19 B) 17 C) 15 D) 14 E) 13

4.

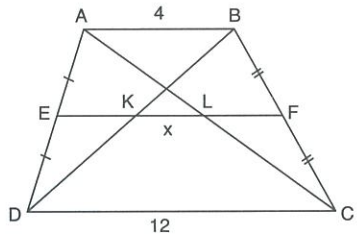


ABCD yamuk
ABCD trapezoid
$|AE| = |ED|$
$|BF| = |FC|$
$|EK| = 4$ br
$|KF| = 3$ br
$|AB| = x$
$|DC| = y$
$\Rightarrow y - x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

PUZA YAYINLARI

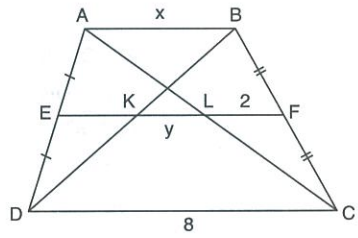
5.



ABCD yamuk
ABCD trapezoid
$|AE| = |ED|$
$|BF| = |FC|$
$|AB| = 4$ br
$|DC| = 12$ br
$\Rightarrow |KL| = x = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

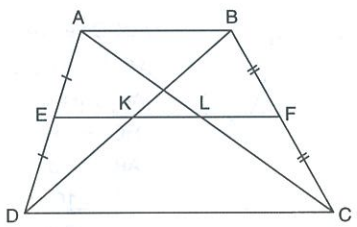
6.



ABCD yamuk
ABCD trapezoid
$|AE| = |ED|$
$|BF| = |FC|$
$|AB| = x$
$|KL| = y$
$|LF| = 2$ br
$|DC| = 8$ br
$\Rightarrow x + y = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

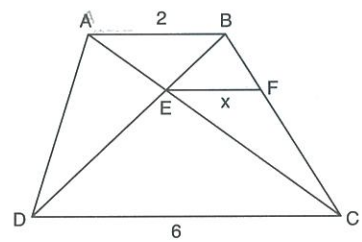
7.



ABCD yamuk
ABCD trapezoid
$|AE| = |ED|$
$|BF| = |FC|$
$|EK| = 2x - 1$
$|KL| = 3x$
$|LF| = x + 4$
$\Rightarrow |AB| + |DC| = ?$

A) 66 B) 38 C) 32 D) 28 E) 14

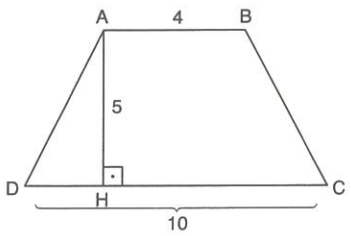
8.



ABCD yamuk
ABCD trapezoid
$[EF] \,//\, [AB]$
$|AB| = 2$ br
$|DC| = 6$ br
$\Rightarrow |EF| = x = ?$

A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

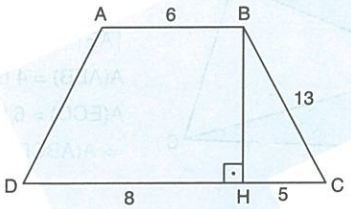
9.



ABCD yamuk
ABCD trapezoid
[AH] ⊥ [DC]
|AB| = 4 br
|AH| = 5 br
|DC| = 10 br
⇒ A(ABCD) = ?

A) 60 B) 45 C) 35 D) 20 E) 15

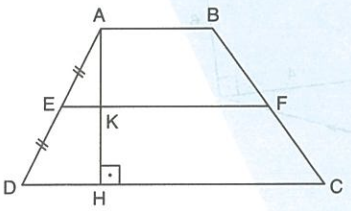
10.



ABCD yamuk
ABCD trapezoid
[BH] ⊥ [DC]
|AB| = 6 br
|DH| = 8 br
|HC| = 5 br
|BC| = 13 br
⇒ A(ABCD) = ?

A) 144 B) 114 C) 96 D) 84 E) 72

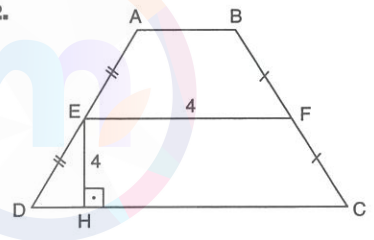
11.



ABCD yamuk
ABCD trapezoid
[AH] ⊥ [DC]
|AE| = |ED|
[EF] // [DC]
|AK| = 8 br
|EF| = 6 br
⇒ A(ABCD) = ?

A) 24 B) 36 C) 48 D) 72 E) 96

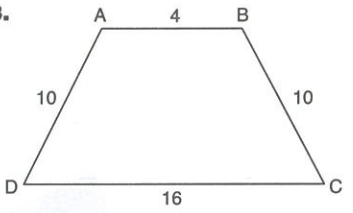
12.



ABCD yamuk
ABCD trapezoid
|AE| = |ED|
|BF| = |FC|
[EH] ⊥ [DC]
|EF| = |EH| = 4 br
⇒ A(ABCD) = ?

A) 8 B) 16 C) 32 D) 64 E) 128

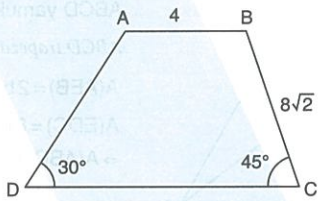
13.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
|AB| = 4 br
|AD| = |BC| = 10 br
|DC| = 16 br
⇒ A(ABCD) = ?

A) 144 B) 124 C) 118 D) 100 E) 80

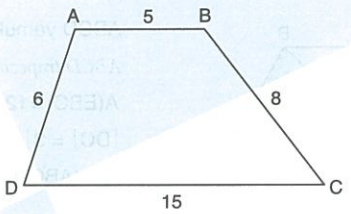
14.



ABCD yamuk
ABCD trapezoid
$m(\widehat{ADC}) = 30°$
$m(\widehat{BCD}) = 45°$
|AB| = 4 br
$|BC| = 8\sqrt{2}$ br
⇒ A(ABCD) = ?

A) $32\sqrt{3}$ B) 64 C) 96
D) $64+32\sqrt{3}$ E) $128+64\sqrt{3}$

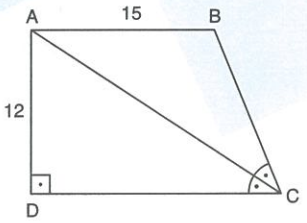
15.



ABCD yamuk
ABCD trapezoid
|AB| = 5 br
|AD| = 6 br
|BC| = 8 br
|DC| = 15 br
⇒ A(ABCD) = ?

A) 96 B) 72 C) 48 D) 36 E) 24

16.

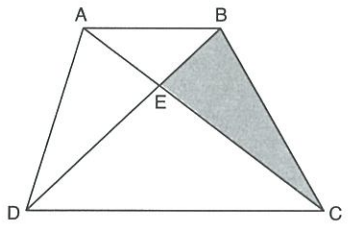


ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
[AC] açıortay
[AC] bisector
|AD| = 12 br
|AB| = 15 br
⇒ A(ABCD) = ?

A) 90 B) 144 C) 180 D) 234 E) 288

PUZA YAYINLARI

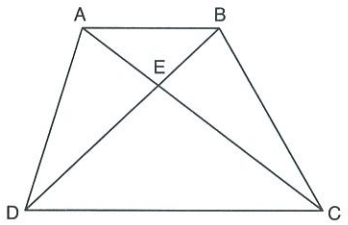
1.



ABCD yamuk
ABCD trapezoid
A(AED) = 4 br²
⇒ A(EBC) = ?

A) 2 B) 4 C) 6 D) 8 E) 16

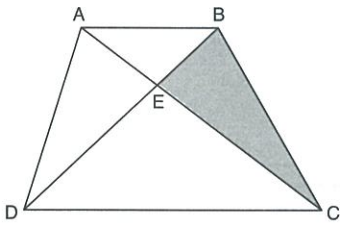
2.



ABCD yamuk
ABCD trapezoid
A(AEB) = 2 br²
A(EDC) = 8 br²
⇒ A(ABCD) = ?

A) 4 B) 12 C) 14 D) 18 E) 32

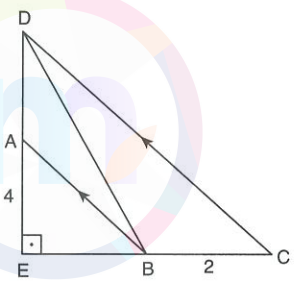
3.



ABCD yamuk
ABCD trapezoid
A(EBC) = 12 br²
|DC| = 3|AB|
⇒ A(ABCD) = ?

A) 40 B) 52 C) 64 D) 78 E) 96

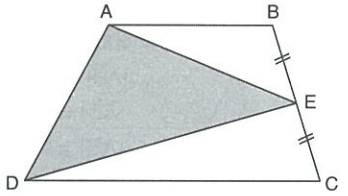
4.



ABCD yamuk
ABCD trapezoid
[DE] ⊥ [EC]
|AE| = 4 br
|BC| = 2 br
⇒ A(ABD) = ?

A) 4 B) 6 C) 8 D) 12 E) 16

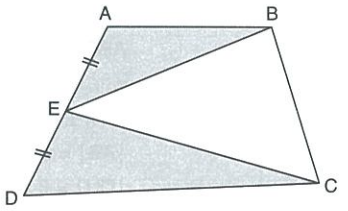
5.



ABCD yamuk
ABCD trapezoid
|BE| = |EC|
A(ADE) = 20 br²
⇒ A(ABCD) = ?

A) 20 B) 30 C) 40 D) 60 E) 80

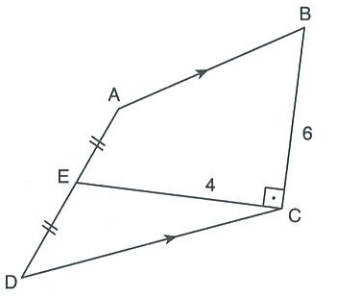
6.



ABCD yamuk
ABCD trapezoid
|AE| = |ED|
A(AEB) = 4 br²
A(ECD) = 6 br²
⇒ A(ABCD) = ?

A) 10 B) 15 C) 20 D) 30 E) 40

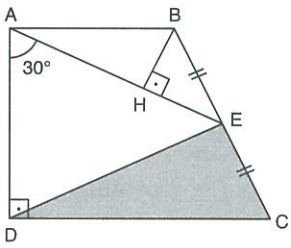
7.



ABCD yamuk
ABCD trapezoid
[EC] ⊥ [BC]
|AE| = |ED|
|EC| = 4 br
|BC| = 6 br
⇒ A(ABCD) = ?

A) 12 B) 24 C) 32 D) 48 E) 56

8.

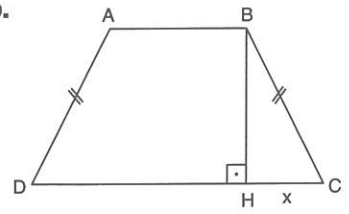


ABCD dik yamuk
ABCD right trapezoid
|BE| = |EC|
[AD] ⊥ [DC]
[BH] ⊥ [AE]
m(DAE) = 30°
|AD| = 8 br
|BH| = 3 br
|AE| = 4 br
⇒ A(EDC) = ?

A) 2 B) 6 C) 8 D) 10 E) 12

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

9.



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$|AD| = |BC|$

$[BH] \perp [DC]$

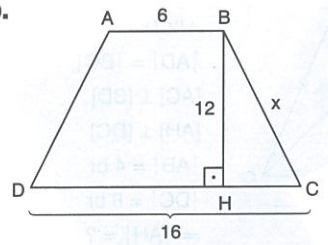
$|AB| = 4$ br

$|DC| = 10$ br

$\Rightarrow |HC| = x = ?$

A) 8 B) 6 C) 5 D) 4 E) 3

10.



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$|AD| = |BC|$

$[BH] \perp [DC]$

$|AB| = 6$ br

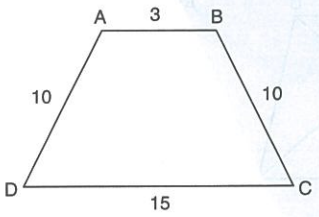
$|BH| = 12$ br

$|DC| = 16$ br

$\Rightarrow |BC| = x = ?$

A) 20 B) 15 C) $12\sqrt{2}$ D) 13 E) 12

11.



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$|AD| = |BC| = 10$ br

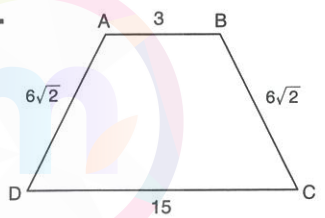
$|AB| = 3$ br

$|DC| = 15$ br

$\Rightarrow$ A(ABCD) = ?

A) 48 B) 64 C) 72 D) 78 E) 96

12.



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$|AD| = |BC| = 6\sqrt{2}$ br

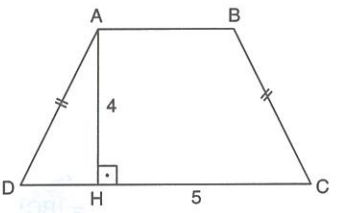
$|AB| = 3$ br

$|DC| = 15$ br

$\Rightarrow$ A(ABCD) = ?

A) 48 B) 54 C) 64 D) $54\sqrt{2}$ E) $108\sqrt{2}$

13.



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$|AD| = |BC|$

$[AH] \perp [DC]$

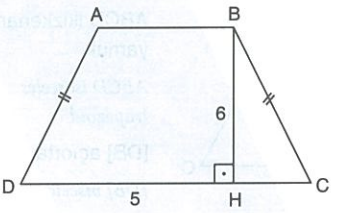
$|AH| = 4$ br

$|HC| = 5$ br

$\Rightarrow$ A(ABCD) = ?

A) 40 B) 30 C) 20 D) 15 E) 10

14.



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$|AD| = |BC|$

$[BH] \perp [DC]$

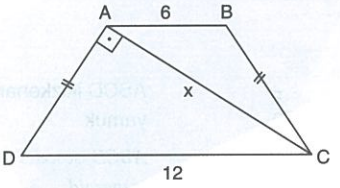
$|BH| = 6$ br

$|DH| = 5$ br

$\Rightarrow$ A(ABCD) = ?

A) 60 B) 45 C) 40 D) 30 E) 15

15.



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$|AD| = |BC|$

$[AC] \perp [AD]$

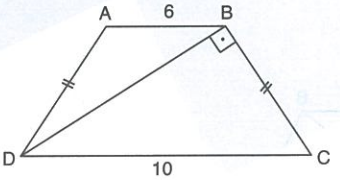
$|AB| = 6$ br

$|DC| = 12$ br

$\Rightarrow |AC| = x = ?$

A) 3 B) $3\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) 9

16.



ABCD ikizkenar yamuk

ABCD isosceles trapezoid

$|AD| = |BC|$

$[BD] \perp [BC]$

$|AB| = 6$ br

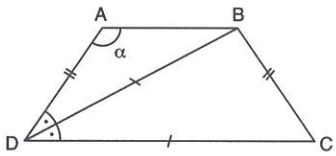
$|DC| = 10$ br

$\Rightarrow$ A(ABCD) = ?

A) 8 B) 16 C) 32 D) 64 E) 76

PUZA YAYINLARI

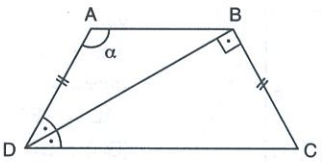
1.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
[DB] açıortay
[DB] bisector
$|AD| = |BC|$
$|BD| = |DC|$
$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 36 B) 54 C) 72 D) 108 E) 144

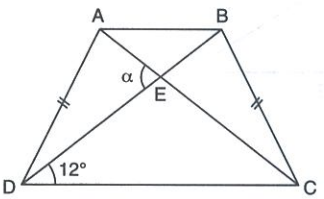
2.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
[DB] açıortay
[DB] bisector
$|AD| = |BC|$
$[BD] \perp [BC]$
$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 150 B) 135 C) 120 D) 105 E) 90

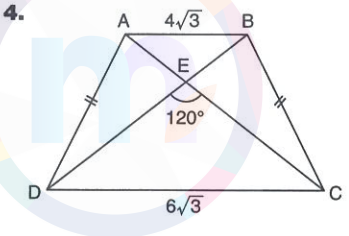
3.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$|AD| = |BC|$
$m(\widehat{BDC}) = 12°$
$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 12 B) 18 C) 24 D) 36 E) 48

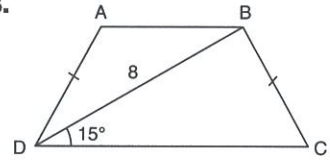
4.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$|AD| = |BC|$
$m(\widehat{DEC}) = 120°$
$|AB| = 4\sqrt{3}$ br
$|DC| = 6\sqrt{3}$ br
$\Rightarrow |AC| = ?$

A) 10 B) 12 C) 15 D) 18 E) 20

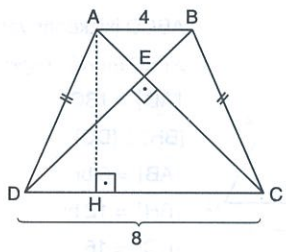
5.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$m(\widehat{BDC}) = 15°$
$|BD| = 8$ br
$\Rightarrow A(ABCD) = ?$

A) 16 B) $16\sqrt{3}$ C) 32 D) $32\sqrt{3}$ E) 64

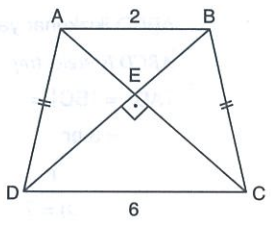
6.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$|AD| = |BC|$
$[AC] \perp [BD]$
$[AH] \perp [DC]$
$|AB| = 4$ br
$|DC| = 8$ br
$\Rightarrow |AH| = ?$

A) 4 B) 6 C) 8 D) 12 E) 16

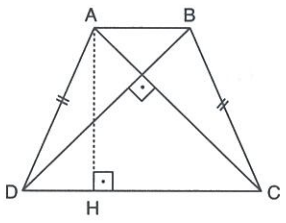
7.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$|AD| = |BC|$
$[AC] \perp [BD]$
$|AB| = 2$ br
$|DC| = 6$ br
$\Rightarrow A(ABCD) = ?$

A) 4 B) 6 C) 8 D) 12 E) 16

8.

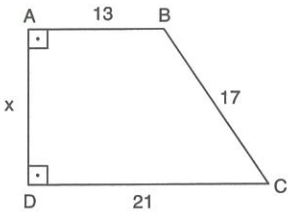


ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$|AD| = |BC|$
$[AC] \perp [BD]$
$[AH] \perp [DC]$
$|AH| = 5$ br
$\Rightarrow A(ABCD) = ?$

A) 5 B) $5\sqrt{3}$ C) 10 D) $10\sqrt{3}$ E) 25

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

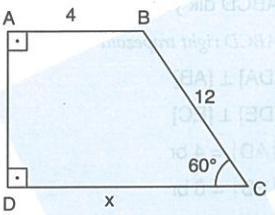
9.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
|AB| = 13 br
|BC| = 17 br
|DC| = 21 br
⇒ |AD| = x = ?

A) 8 B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) 12 E) 15

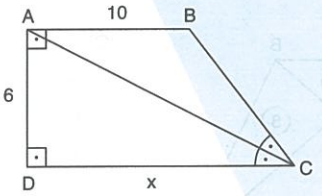
10.



ABCD dik yamuk
ABCD right trapezoid
$m(\widehat{BCD}) = 60°$
[AD] ⊥ [DC]
|AB| = 4 br
|BC| = 12 br
⇒ |DC| = x = ?

A) 4 B) 6 C) $6\sqrt{3}$ D) 10 E) $4+6\sqrt{3}$

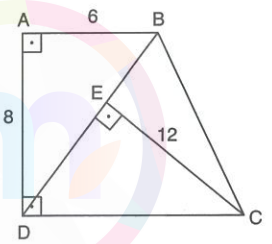
11.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
|AB| = 10 br
|AD| = 6 br
$m(\widehat{DCA}) = m(\widehat{ACB})$
⇒ |DC| = x = ?

A) 18 B) 16 C) 14 D) 12 E) 10

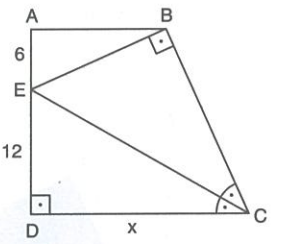
12.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
[CE] ⊥ [BD]
|AB| = 6 br
|AD| = 8 br
|CE| = 12 br
⇒ A(ABCD) = ?

A) 80 B) 84 C) 104 D) 120 E) 168

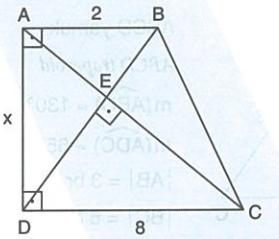
13.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
[EB] ⊥ [BC]
$m(\widehat{DCE}) = m(\widehat{ECB})$
|AE| = 6 br
|ED| = 12 br
⇒ |DC| = x = ?

A) 4 B) 6 C) $6\sqrt{3}$ D) 12 E) $12\sqrt{3}$

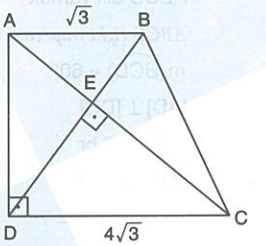
14.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
[BD] ⊥ [AC]
|AB| = 2 br
|DC| = 8 br
⇒ |AD| = x = ?

A) 4 B) 5 C) 6 D) 8 E) 16

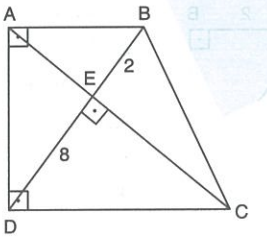
15.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
[BD] ⊥ [AC]
$|AB| = \sqrt{3}$ br
$|DC| = 4\sqrt{3}$ br
⇒ A(ABCD) = ?

A) $2\sqrt{3}$ B) $5\sqrt{3}$ C) $\frac{15}{2}$ D) $\frac{15\sqrt{3}}{2}$ E) 15

16.

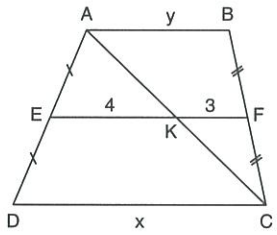


ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
[BD] ⊥ [AC]
|BE| = 2 br
|DE| = 8 br
⇒ A(ABCD) = ?

A) 120 B) 100 C) 90 D) 80 E) 40

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

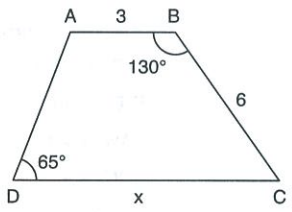
1.



ABCD yamuk
ABCD trapezoid
$|BF| = |FC|$
$|AE| = |ED|$
$|EK| = 4$ br
$|KF| = 3$ br
$|AB| = y$
$|DC| = x$
$\Rightarrow x - y = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

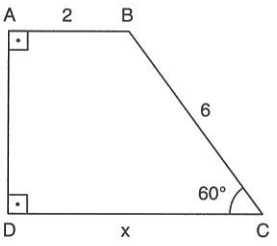
2.



ABCD yamuk
ABCD trapezoid
$m(\widehat{ABC}) = 130°$
$m(\widehat{ADC}) = 65°$
$|AB| = 3$ br
$|BC| = 6$ br
$\Rightarrow |DC| = x = ?$

A) 5 B) 6 C) 7 D) 9 E) 12

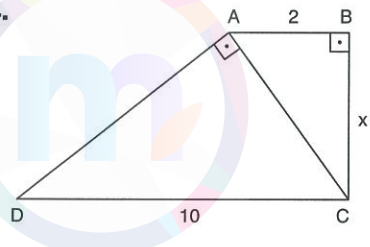
3.



ABCD dik yamuk
ABCD right trapezoid
$m(\widehat{BCD}) = 60°$
$[AD] \perp [DC]$
$|AB| = 2$ br
$|BC| = 6$ br
$\Rightarrow |DC| = x = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

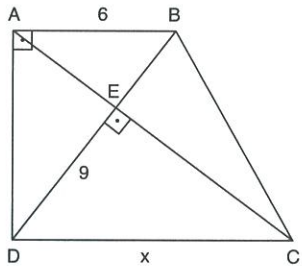
4.



ABCD dik yamuk
ABCD right trapezoid
$|DC| = 10$ br
$|AB| = 2$ br
$[DA] \perp [AC]$
$[AB] \perp [BC]$
$\Rightarrow |BC| = x = ?$

A) 2 B) 4 C) $4\sqrt{3}$ D) $4\sqrt{5}$ E) 8

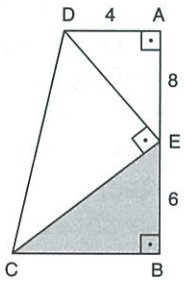
5.



ABCD dik yamuk
ABCD right trapezoid
$[DA] \perp [AB]$
$[CE] \perp [BD]$
$|AB| = 6$ br
$|ED| = 9$ br
$\Rightarrow x = ?$

A) 10 B) 12 C) 15 D) 18 E) 20

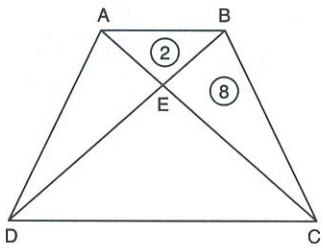
6.



ABCD dik yamuk
ABCD right trapezoid
$[DA] \perp [AB]$
$[DE] \perp [EC]$
$|AD| = 4$ br
$|EB| = 6$ br
$|AE| = 8$ br
$\Rightarrow A(EBC) = ?$

A) 9 B) 12 C) 24 D) 32 E) 36

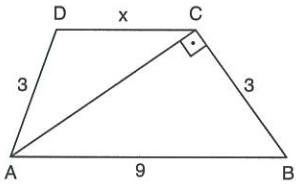
7.



ABCD yamuk
ABCD trapezoid
$A(AEB) = 2$ br^2
$A(EBC) = 8$ br^2
$\Rightarrow A(ABCD) = ?$

A) 40 B) 42 C) 48 D) 50 E) 60

8.

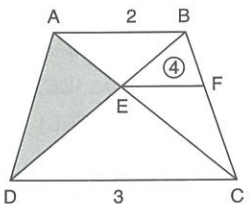


ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$[AC] \perp [BC]$
$|AD| = |BC| = 3$ br
$|AB| = 9$ br
$\Rightarrow |CD| = x = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

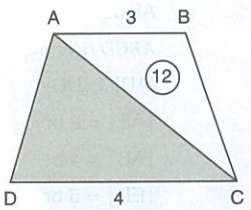
9.



ABCD yamuk
ABCD trapezoid
[EF] // [AB]
|AB| = 2 br
|DC| = 3 br
A(BEF) = 4 br^2
⇒ A(AED) = ?

A) 6 B) 8 C) 10 D) 12 E) 16

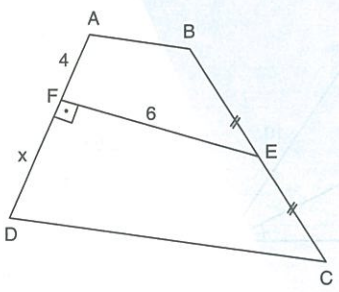
10.



ABCD yamuk
ABCD trapezoid
|AB| = 3 br
|DC| = 4 br
A(ABC) = 12 br^2
⇒ A(ADC) = ?

A) 20 B) 16 C) 14 D) 12 E) 8

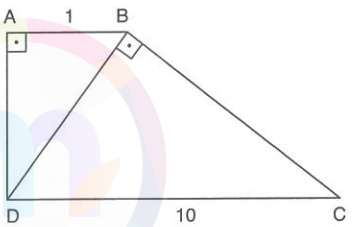
11.



ABCD yamuk
ABCD trapezoid
|BE| = |EC|
[EF] ⊥ [FD]
A(ABCD) = 54 br^2
⇒ |FD| = x = ?

A) 3 B) 4 C) 5 D) 6 E) 7

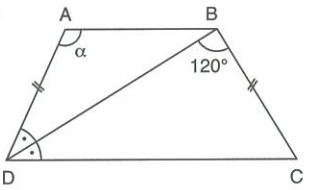
12.



ABCD dik yamuk
ABCD right trapezoid
[DA] ⊥ [AB]
[DB] ⊥ [BC]
|AB| = 1 br
|DC| = 10 br
⇒ A(ABCD) = ?

A) $\frac{11}{2}$ B) $\frac{33}{2}$ C) 20 D) 33 E) 66

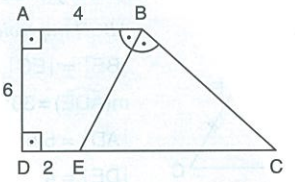
13.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
|AD| = |BC|
[BD] açıortay
[BD] açıortay
m(DBC) = 120°
⇒ m(DAB) = α = ?

A) 140 B) 130 C) 120 D) 110 E) 100

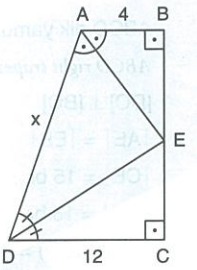
14.



ABCD dik yamuk
ABCD right trapezoid
m(ABE) = m(EBC)
|AB| = 4 br
|ED| = 2 br
|AD| = 6 br
⇒ A(ABCD) = ?

A) 28 B) 30 C) 32 D) 40 E) 48

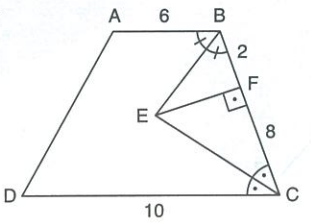
15.



ABCD dik yamuk
ABCD right trapezoid
[DE], [AE] açıortay
[DE], [AE] bisector
|AB| = 4 br
|DC| = 12 br
⇒ |AD| = x = ?

A) 4 B) 6 C) 8 D) 12 E) 16

16.

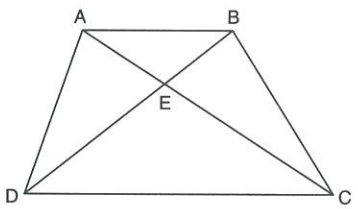


ABCD yamuk
ABCD trapezoid
[BE], [EC] açıortay
[BE], [EC] bisector
[EF] ⊥ [BC]
|DC| = 10 br
|AB| = 6 br
|BF| = 2 br
|FC| = 8 br
⇒ A(ABCD) = ?

A) 40 B) 42 C) 48 D) 56 E) 64

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

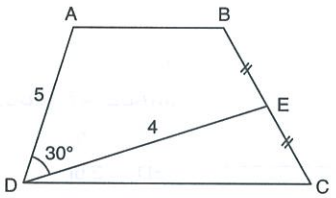
1.



ABCD yamuk
ABCD trapezoid
A(AEB) = 4 br²
A(ADE) = 10 br²
⇒ A(ABCD) = ?

A) 25 B) 28 C) 32 D) 45 E) 49

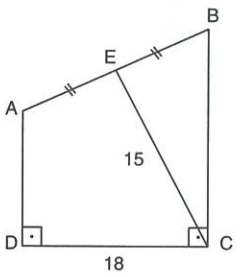
2.



ABCD yamuk
ABCD trapezoid
|BE| = |EC|
m(ÂDÊ) = 30°
|AD| = 5 br
|DE| = 4 br
⇒ A(ABCD) = ?

A) 5 B) $5\sqrt{3}$ C) 10 D) $10\sqrt{3}$ E) 20

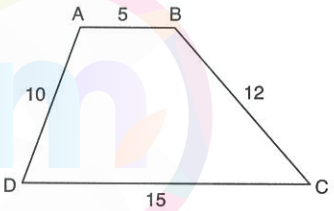
3.



ABCD dik yamuk
ABCD right trapezoid
[DC] ⊥ [BC]
|AE| = |EB|
|CE| = 15 br
|DC| = 18 br
⇒ A(ABCD) = ?

A) 96 B) 108 C) 135 D) 152 E) 216

4.



ABCD yamuk
ABCD trapezoid
|AB| = 5 br
|BC| = 12 br
|AD| = 10 br
|DC| = 15 br
⇒ A(ABCD) = ?

A) 80 B) 84 C) 88 D) 92 E) 96

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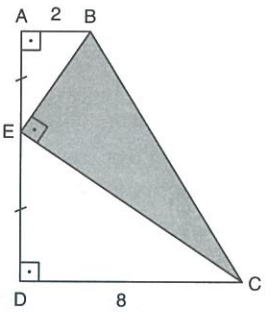
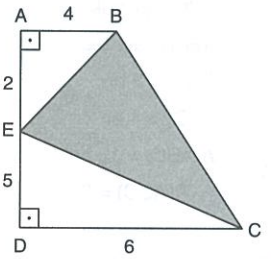
5.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
[BE] ⊥ [EC]
|AB| = 2 br
|DC| = 8 br
|AE| = |ED|
⇒ A(EBC) = ?

A) 10 B) 20 C) 30 D) 40 E) 50

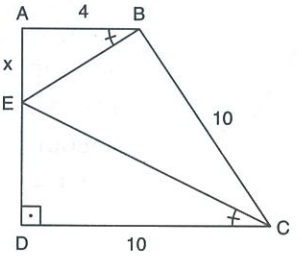
6.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
|AE| = 2 br
|AB| = 4 br
|ED| = 5 br
|DC| = 6 br
⇒ A(EBC) = ?

A) 35 B) 25 C) 19 D) 16 E) 6

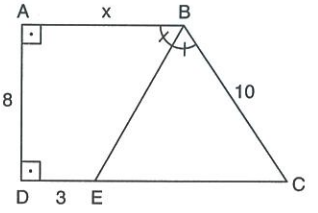
7.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
m(ÂBÊ) = m(ÊCD̂)
|AB| = 4 br
|DC| = |BC| = 10 br
⇒ |AE| = x = ?

A) 2 B) $\frac{16}{7}$ C) $\frac{7}{2}$ D) 4 E) $\frac{21}{4}$

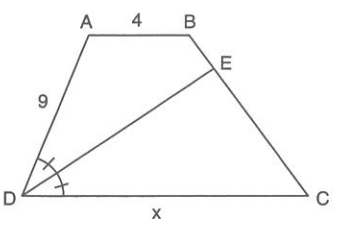
8.



ABCD dik yamuk
ABCD right trapezoid
[AD] ⊥ [DC]
m(ÂBÊ) = m(ÊBC)
|AD| = 8 br
|DE| = 3 br
|BC| = 10 br
⇒ |AB| = x = ?

A) 7 B) 6 C) 5 D) 4 E) 3

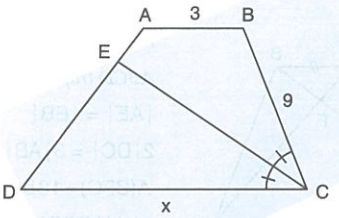
9.



ABCD yamuk
ABCD trapezoid
$m(\widehat{ADE}) = m(\widehat{EDC})$
$|EC| = 2|EB|$
$|AB| = 4$ br
$|AD| = 9$ br
$\Rightarrow |DC| = x = ?$

A) 12 B) 10 C) 8 D) 7 E) 6

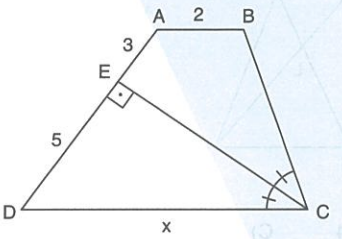
10.



ABCD yamuk
ABCD trapezoid
$m(\widehat{BCE}) = m(\widehat{ECD})$
$2|ED| = 3|AE|$
$|AB| = 3$ br
$|BC| = 9$ br
$\Rightarrow |DC| = x = ?$

A) $\frac{7}{2}$ B) 6 C) $\frac{15}{2}$ D) 9 E) $\frac{27}{2}$

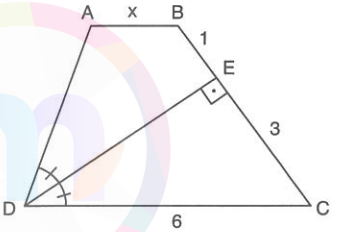
11.



ABCD yamuk
ABCD trapezoid
$m(\widehat{ECD}) = m(\widehat{ECB})$
$[EC] \perp [AD]$
$|AB| = 2$ br
$|AE| = 3$ br
$|ED| = 5$ br
$\Rightarrow |DC| = x = ?$

A) 10 B) 9 C) 8 D) 7 E) 6

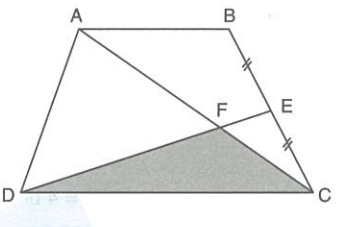
12.



ACBD yamuk
ABCD trapezoid
$[DE] \perp [BC]$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$|BE| = 1$ br
$|EC| = 3$ br
$|DC| = 6$ br
$\Rightarrow |AB| = x = ?$

A) $\frac{5}{6}$ B) 2 C) $\frac{11}{3}$ D) 4 E) $\frac{26}{3}$

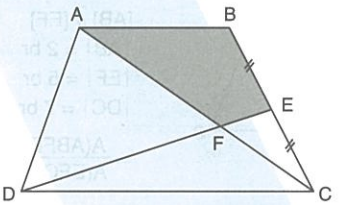
13.



ABCD yamuk
ABCD trapezoid
$|BE| = |EC|$
$5|AB| = 4|DC|$
$A(EFC) = 6\,br^2$
$\Rightarrow A(DFC) = ?$

A) $\frac{15}{2}$ B) 9 C) 12 D) 15 E) 18

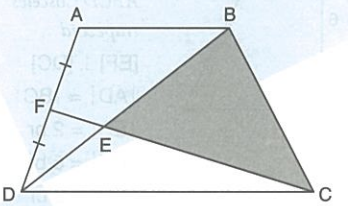
14.



ABCD yamuk
ABCD trapezoid
$|BE| = |EC|$
$|DC| = 2|AB|$
$A(EFC) = 10\,br^2$
$\Rightarrow A(ABEF) = ?$

A) 75 B) 65 C) 50 D) 40 E) 30

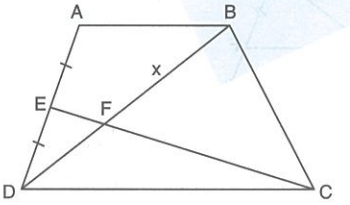
15.



ABCD yamuk
ABCD trapezoid
$|AF| = |FD|$
$|EC| = 3|FE|$
$A(FED) = 4\,br^2$
$\Rightarrow A(BEC) = ?$

A) 24 B) 22 C) 20 D) 12 E) 8

16.

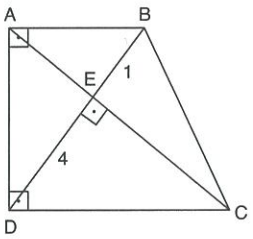


ABCD yamuk
ABCD trapezoid
$|AE| = |ED|$
$3|AB| = 2|DC|$
$|DF| = 9$ br
$\Rightarrow |FB| = x = ?$

A) 18 B) 15 C) 12 D) $\frac{17}{3}$ E) $\frac{13}{2}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

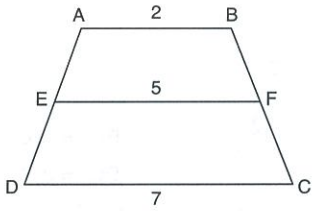
1.



ABCD yamuk
ABCD trapezoid
[AD] ⊥ [DC]
[AC] ⊥ [DB]
|BE| = 1 br
|DE| = 4 br
⇒ A(ABCD) = ?

A) 10 B) 16 C) 20 D) 25 E) 30

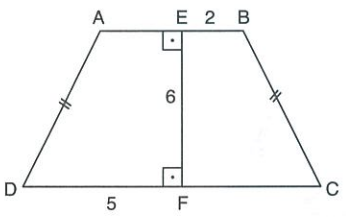
2.



ABCD yamuk
ABCD trapezoid
[AB] // [EF]
|AB| = 2 br
|EF| = 5 br
|DC| = 7 br
$\Rightarrow \frac{A(ABFE)}{A(EFCD)} = ?$

A) $\frac{7}{8}$ B) $\frac{7}{12}$ C) $\frac{3}{2}$ D) $\frac{5}{3}$ E) $\frac{7}{2}$

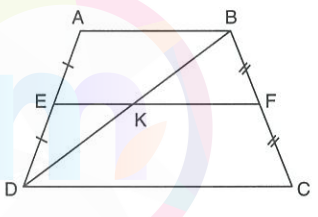
3.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
[EF] ⊥ [DC]
|AD| = |BC|
|EB| = 2 br
|DF| = 5 br
|EF| = 6 br
⇒ A(ABCD) = ?

A) 30 B) 36 C) 42 D) 48 E) 54

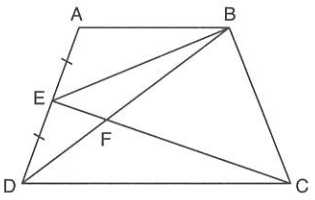
4.



ABCD yamuk
ABCD trapezoid
|AE| = |ED|
|BF| = |FC|
A(ABKE) = 9 br²
A(KFCD) = 15 br²
A(BFK) = S_1
A(EKD) = S_2
⇒ $S_1 + S_2$ = ?

A) 3 B) 5 C) 8 D) 14 E) 16

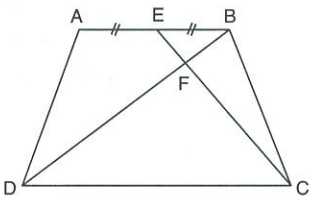
5.



ABCD yamuk
ABCD trapezoid
|AE| = |ED|
A(DEF) = 4 br²
A(BFC) = 24 br²
⇒ A(ABCD) = ?

A) 96 B) 78 C) 60 D) 58 E) 52

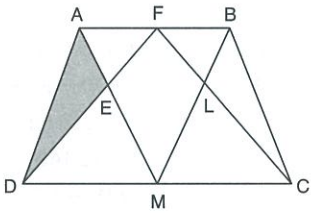
6.



ABCD yamuk
ABCD trapezoid
|AE| = |EB|
2|DC| = 3|AB|
A(BFC) = 18 br²
⇒ A(ABCD) = ?

A) 144 B) 120 C) 114 D) 98 E) 84

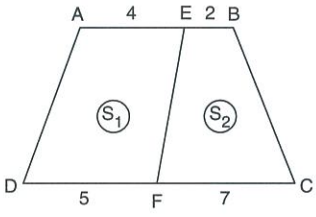
7.



ABCD yamuk
ABCD trapezoid
A(EFLM) = 20 br²
A(BLC) = 8 br²
⇒ A(ADE) = ?

A) 28 B) 24 C) 16 D) 12 E) 8

8.

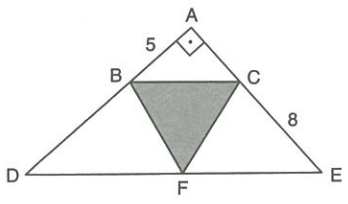


ABCD yamuk
ABCD trapezoid
|AE| = 4 br
|EB| = 2 br
|DF| = 5 br
|FC| = 7 br
A(AEFD) = S_1
A(EBCF) = S_2
$\Rightarrow \frac{S_1}{S_2} = ?$

A) 2 B) 1 C) $\frac{4}{5}$ D) $\frac{2}{5}$ E) $\frac{1}{7}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

9.



BCED yamuk

BCED trapezoid

$[DA] \perp [EA]$

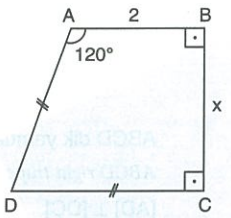
$|AB| = 5$ br

$|CE| = 8$ br

$\Rightarrow A(BCF) = ?$

A) 80 B) 60 C) 40 D) 20 E) 10

10.



ABCD dik yamuk

ABCD right trapezoid

$|AD| = |DC|$

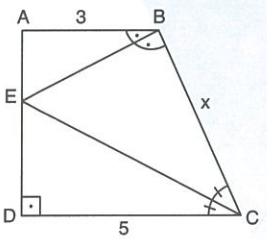
$m(\widehat{DAB}) = 120°$

$|AB| = 2$ br

$\Rightarrow |BC| = x = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 8

11.



ABCD dik yamuk

ABCD right trapezoid

$[AD] \perp [DC]$

$m(\widehat{DCE}) = m(\widehat{ECB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

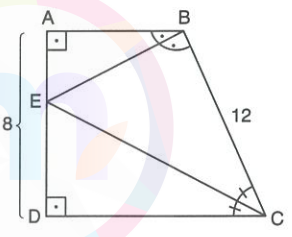
$|AB| = 3$ br

$|DC| = 5$ br

$\Rightarrow |BC| = x = ?$

A) 10 B) 8 C) 6 D) 5 E) 3

12.



ABCD dik yamuk

ABCD right trapezoid

$[AD] \perp [DC]$

$m(\widehat{ABE}) = m(\widehat{EBC})$

$m(\widehat{BCE}) = m(\widehat{ECD})$

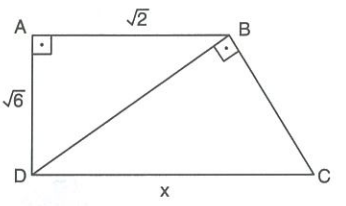
$|AD| = 8$ br

$|BC| = 12$ br

$\Rightarrow A(ABCD) = ?$

A) 96 B) 84 C) 72 D) 56 E) 48

13.



ABCD dik yamuk

ABCD right trapezoid

$[AD] \perp [AB]$

$[DB] \perp [BC]$

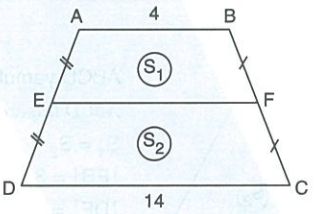
$|AB| = \sqrt{2}$ br

$|AD| = \sqrt{6}$ br

$\Rightarrow |DC| = x = ?$

A) $2\sqrt{3}$ B) $4\sqrt{2}$ C) $\sqrt{2}+3$ D) $2\sqrt{2}+4$ E) $4\sqrt{2}+3$

14.



ABCD yamuk

ABCD trapezoid

$|AE| = |ED|$

$|BF| = |FC|$

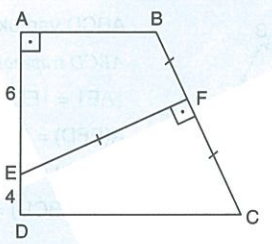
$|AB| = 4$ br

$|DC| = 14$ br

$A(ABFE) = S_1$ $A(EFCD) = S_2$ $\Rightarrow \frac{S_2}{S_1} = ?$

A) $\frac{2}{7}$ B) $\frac{13}{23}$ C) 1 D) $\frac{23}{13}$ E) 2

15.



ABCD dik yamuk

ABCD right trapezoid

$[AD] \perp [AB]$

$[EF] \perp [BC]$

$|BF| = |FC| = |EF|$

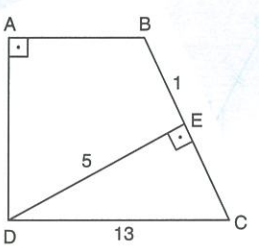
$|AE| = 6$ br

$|ED| = 4$ br

$\Rightarrow A(ABCD) = ?$

A) 100 B) 80 C) 75 D) 50 E) 25

16.



ABCD dik yamuk

ABCD right trapezoid

$[AD] \perp [AB]$

$[DE] \perp [BC]$

$|BE| = 1$ br

$|DC| = 13$ br

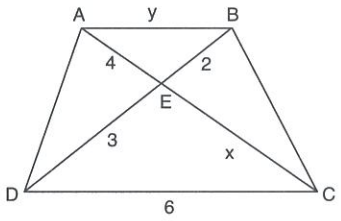
$|DE| = 5$ br

$\Rightarrow A(ABCD) = ?$

A) 144 B) 72 C) 35 D) 28 E) 26

PUZA YAYINLARI

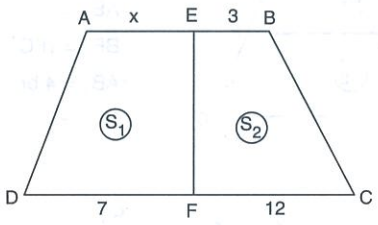
1.



ABCD yamuk
ABCD trapezoid
$|AE| = 4$ br
$|BE| = 2$ br
$|DE| = 3$ br
$|DC| = 6$ br
$|CE| = x$
$|AB| = y$
$\Rightarrow x + y = ?$

A) 6 B) 8 C) 9 D) 10 E) 12

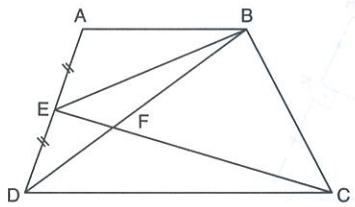
2.



ABCD yamuk
ABCD trapezoid
$S_1 = S_2$
$|EB| = 3$ br
$|DF| = 7$ br
$|FC| = 12$ br
$\Rightarrow |AE| = x = ?$

A) 10 B) 8 C) 7 D) 6 E) 5

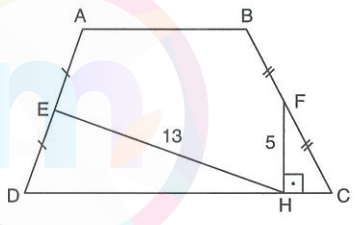
3.



ABCD yamuk
ABCD trapezoid
$|AE| = |ED|$
$A(EFD) = 2$ br^2
$A(BFC) = 12$ br^2
$\Rightarrow A(ABCD) = ?$

A) 48 B) 44 C) 42 D) 36 E) 30

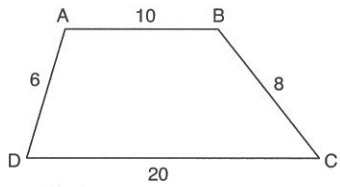
4.



ABCD yamuk
ABCD trapezoid
$[FH] \perp [DC]$
$|AE| = |ED|$
$|BF| = |FC|$
$|FH| = 5$ br
$|EH| = 13$ br
$\Rightarrow A(ABCD) = ?$

A) 130 B) 120 C) 100 D) 65 E) 60

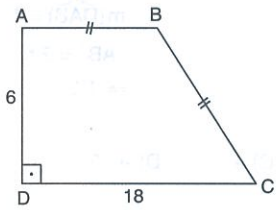
5.



ABCD yamuk
ABCD trapezoid
$|AB| = 10$ br
$|BC| = 8$ br
$|DC| = 20$ br
$|AD| = 6$ br
$\Rightarrow A(ABCD) = ?$

A) 24 B) 48 C) 64 D) 72 E) 108

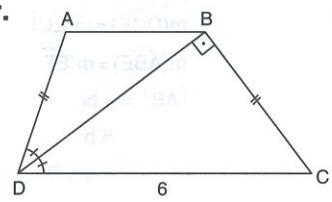
6.



ABCD dik yamuk
ABCD right trapezoid
$[AD] \perp [DC]$
$|AB| = |BC|$
$|AD| = 6$ br
$|DC| = 18$ br
$\Rightarrow A(ABCD) = ?$

A) 144 B) 128 C) 112 D) 100 E) 84

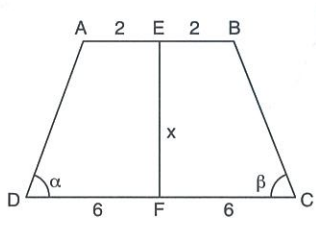
7.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$[DB] \perp [BC]$
$|AD| = |BC|$
$|DC| = 6$ br
$\Rightarrow A(ABCD) = ?$

A) 6 B) $\frac{9\sqrt{3}}{2}$ C) $6\sqrt{3}$ D) $9\sqrt{3}$ E) $\frac{27\sqrt{3}}{4}$

8.

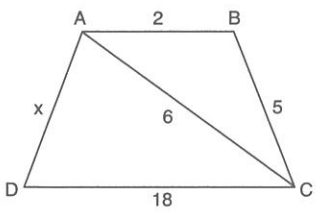


ABCD yamuk
ABCD trapezoid
$\alpha + \beta = 90°$
$|AE| = |EB| = 2$ br
$|DF| = |FC| = 6$ br
$\Rightarrow |EF| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

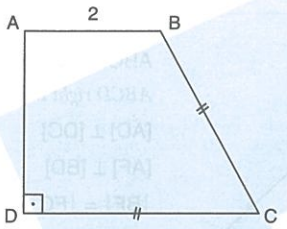
9.



ABCD yamuk
ABCD trapezoid
$|AB| = 2$ br
$|BC| = 5$ br
$|AC| = 6$ br
$|DC| = 18$ br
$\Rightarrow |AD| = x = ?$

A) 5 B) 10 C) 15 D) 20 E) 24

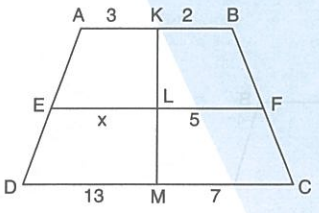
10.



ABCD dik yamuk
ABCD right trapezoid
$[AD] \perp [DC]$
$|DC| = |BC|$
$|AB| = 2$ br
Ç(ABCD) = 28 br
$\Rightarrow$ A(ABCD) = ?

A) 30 B) 36 C) 40 D) 48 E) 60

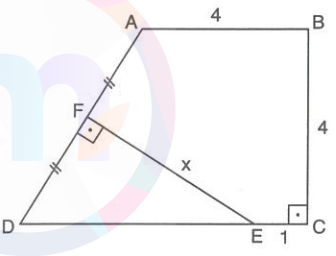
11.



ABCD yamuk
ABCD trapezoid
$[EF] \,//\, [DC]$
$|AK| = 3$ br
$|KB| = 2$ br
$|DM| = 13$ br
$|MC| = 7$ br
$|LF| = 5$ br
$\Rightarrow |EL| = x = ?$

A) 11 B) 10 C) 9 D) 7 E) 6

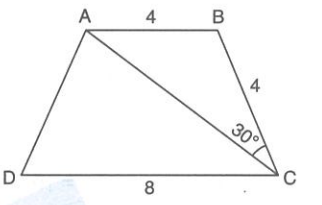
12.



ABCD dik yamuk
ABCD right trapezoid
$[BC] \perp [DC]$
$[EF] \perp [AD]$
$|AF| = |FD|$
$|AB| = |BC| = 4$ br
$|EC| = 1$ br
$\Rightarrow |FE| = x = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) 5 D) $5\sqrt{2}$ E) 10

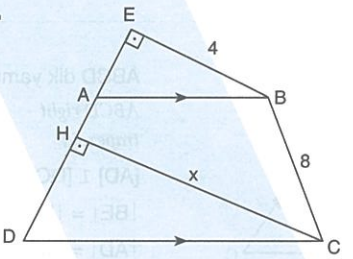
13.



ABCD yamuk
ABCD trapezoid
$m(\widehat{ACB}) = 30°$
$|AB| = |BC| = 4$ br
$|DC| = 8$ br
$\Rightarrow$ A(ABCD) = ?

A) 12 B) $8\sqrt{3}$ C) $12\sqrt{3}$ D) 24 E) $24\sqrt{3}$

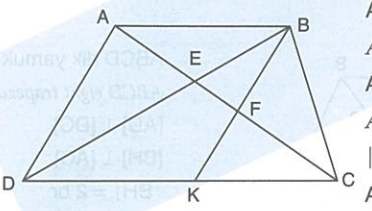
14.



ABCD yamuk
ABCD trapezoid
$[EB] \perp [DE]$
$[CH] \perp [DE]$
$|EB| = 4$ br
$|AD| = |BC| = 8$ br
$A(ABCD) = 40\ br^2$
$\Rightarrow |CH| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 6

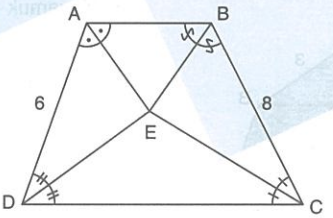
15.



ABCD yamuk
ABCD trapezoid
ABKD paralelkenar
ABKD parallelogram
$|DE| = 3|EB|$
$A(EBF) = S_1$
$A(DEFK) = S_2$
$\Rightarrow \frac{S_2}{S_1} = ?$

A) 11 B) $\frac{17}{3}$ C) 4 D) $\frac{7}{2}$ E) 3

16.

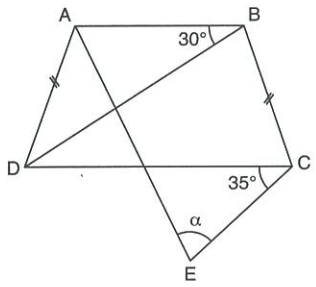


ABCD yamuk
ABCD trapezoid
[AE], [BE], [CE], [DE] açıortay
[AE], [BE], [CE], [DE] bisector
$|AD| = 6$ br
$|BC| = 8$ br
$\Rightarrow$ Ç(ABCD) = ?

A) 20 B) 26 C) 28 D) 30 E) 32

PUZA YAYINLARI

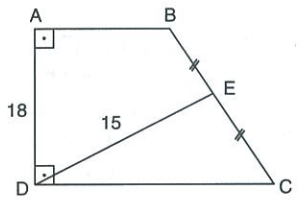
1.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$|AD| = |BC|$
$|AE| = |BD|$
$m(\widehat{ABD}) = 30°$
$m(\widehat{DCE}) = 35°$
$\Rightarrow m(\widehat{AEC}) = \alpha = ?$

A) 15 B) 30 C) 35 D) 65 E) 70

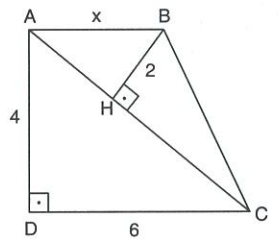
2.



ABCD dik yamuk
ABCD right trapezoid
$[AD] \perp [DC]$
$|BE| = |EC|$
$|AD| = 18$ br
$|DE| = 15$ br
$\Rightarrow A(ABCD) = ?$

A) 120 B) 135 C) 196 D) 216 E) 270

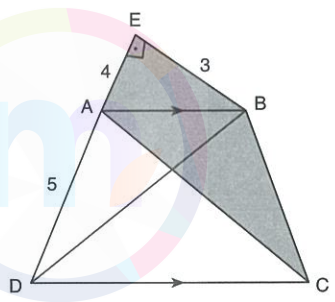
3.



ABCD dik yamuk
ABCD right trapezoid
$[AD] \perp [DC]$
$[BH] \perp [AC]$
$|BH| = 2$ br
$|AD| = 4$ br
$|DC| = 6$ br
$\Rightarrow |AB| = x = ?$

A) $\sqrt{13}$ B) $\frac{10}{3}$ C) 4 D) $\frac{20}{3}$ E) $2\sqrt{13}$

4.

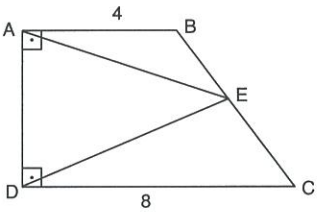


ABCD yamuk
ABCD trapezoid
$[BE] \perp [ED]$
$|BE| = 3$ br
$|AE| = 4$ br
$|AD| = 5$ br
$\Rightarrow A(AEBC) = ?$

A) $\frac{27}{2}$ B) 16 C) 18 D) 24 E) 27

PUZA YAYINLARI

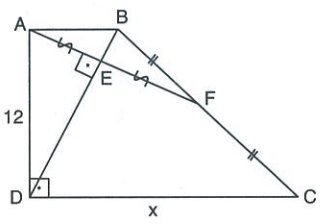
5.



ABCD dik yamuk
ABCD right trapezoid
AED eşkenar üçgen
AED equilateral triangle
$[AD] \perp [DC]$
$|AB| = 4$ br
$|DC| = 8$ br
$\Rightarrow A(ABCD) = ?$

A) 12 B) $12\sqrt{3}$ C) 24 D) $24\sqrt{3}$ E) 36

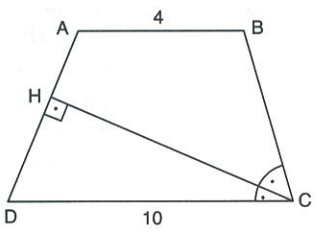
6.



ABCD dik yamuk
ABCD right trapezoid
$[AD] \perp [DC]$
$[AF] \perp [BD]$
$|BF| = |FC|$
$|AE| = |EF|$
$|AD| = 12$ br
$\Rightarrow |DC| = x = ?$

A) $4\sqrt{3}$ B) $6\sqrt{3}$ C) 10 D) $8\sqrt{3}$ E) 12

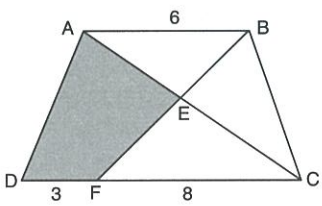
7.



ABCD yamuk
ABCD trapezoid
$|AD| = |BC|$
$m(\widehat{DCH}) = m(\widehat{HCB})$
$|AB| = 4$ br
$|DC| = 10$ br
$\Rightarrow A(ABCD) = ?$

A) $24\sqrt{3}$ B) $21\sqrt{3}$ C) $18\sqrt{3}$ D) 18 E) $9\sqrt{3}$

8.



ABCD yamuk
ABCD trapezoid
$|AB| = 6$ br
$|DF| = 3$ br
$|FC| = 8$ br
$A(BEC) = 12$ br^2
$\Rightarrow A(AEFD) = ?$

A) $\frac{21}{2}$ B) 12 C) $\frac{45}{2}$ D) 36 E) 54

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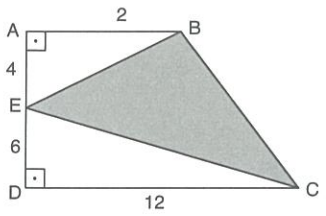
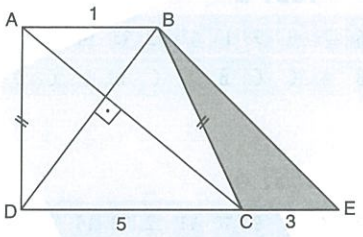
9.



ABCD dik yamuk
ABCD right trapezoid
$[AD] \perp [DC]$
$|AB| = 2$ br
$|AE| = 4$ br
$|ED| = 6$ br
$|DC| = 12$ br
$\Rightarrow A(EBC) = ?$

A) 50 B) 40 C) 36 D) 30 E) 25

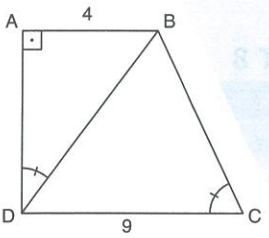
10.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$|AD| = |BC|$
$[BD] \perp [AC]$
$|AB| = 1$ br
$|CE| = 3$ br
$|DC| = 5$ br
$\Rightarrow A(BCE) = ?$

A) 18 B) 15 C) 12 D) 9 E) $\frac{9}{2}$

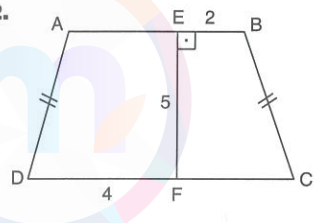
11.



ABCD dik yamuk
ABCD right trapezoid
$[AD] \perp [AB]$
$m(\widehat{ADB}) = m(\widehat{BCD})$
$|AB| = 4$ br
$|DC| = 9$ br
$\Rightarrow A(ABCD) = ?$

A) $36\sqrt{3}$ B) 36 C) 24 D) $13\sqrt{5}$ E) 13

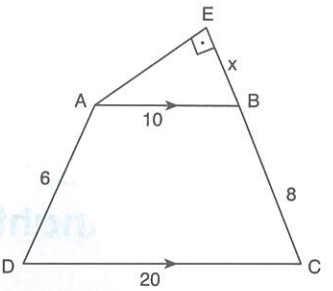
12.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$|AD| = |BC|$
$|EB| = 2$ br
$|EF| = 5$ br
$|DF| = 4$ br
$\Rightarrow A(ABCD) = ?$

A) 24 B) 25 C) 30 D) 36 E) 40

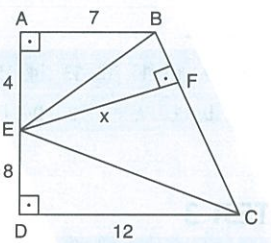
13.



ABCD yamuk
ABCD trapezoid
$[CE] \perp [AE]$
$|AB| = 10$ br
$|BC| = 8$ br
$|AD| = 6$ br
$|DC| = 20$ br
$\Rightarrow |EB| = x = ?$

A) 3,6 B) 4,8 C) 6 D) 8 E) 9,6

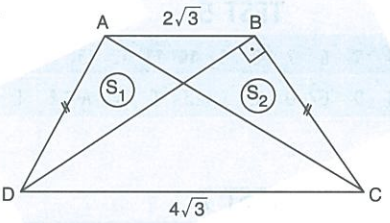
14.



ABCD dik yamuk
ABCD right trapezoid
$[AD] \perp [DC]$
$[EF] \perp [BC]$
$|AB| = 7$ br
$|AE| = 4$ br
$|ED| = 8$ br
$|DC| = 12$ br
$\Rightarrow |EF| = x = ?$

A) 10 B) 8 C) 6 D) 5 E) 4

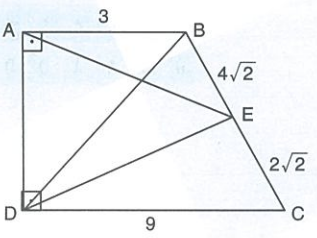
15.



ABCD ikizkenar yamuk
ABCD isosceles trapezoid
$[BD] \perp [BC]$
$|AD| = |BC|$
$|AB| = 2\sqrt{3}$ br
$|DC| = 4\sqrt{3}$ br
$\Rightarrow S_1 + S_2 = ?$

A) $4\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 8 E) $8\sqrt{3}$

16.



ABCD dik yamuk
ABCD right trapezoid
$[AD] \perp [DC]$
$|AB| = 3$ br
$|BE| = 4\sqrt{2}$ br
$|EC| = 2\sqrt{2}$ br
$|DC| = 9$ br
$|AE| = x$
$|DE| = y$
$\Rightarrow \frac{x^2}{y^2} = ?$

A) 2 B) $\frac{7}{4}$ C) $\frac{65}{53}$ D) $\frac{5}{16}$ E) $\frac{2}{51}$

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YAMUK TRAPEZOID
Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	E	C	D	A	D	A	C	D	E	A	C	B	D	E	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	D	E	B	C	B	A	C	C	B	E	C	E	D	C	D

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	C	A	C	C	B	A	E	D	C	B	C	D	D	C

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	C	A	A	B	E	E	E	D	A	B	E	A	E	B

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	D	C	B	D	E	D	C	C	B	C	B	A	E	E	E

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	C	E	E	B	D	B	A	B	D	A	B	D	D	C	B

TEST 7

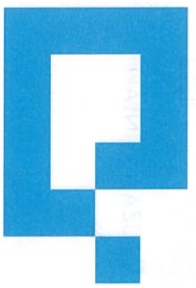
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	A	C	C	C	B	D	B	D	B	B	E	B	D	D	C

TEST 8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	E	B	D	E	E	D	C	B	C	B	C	E	A	C

TEST 9

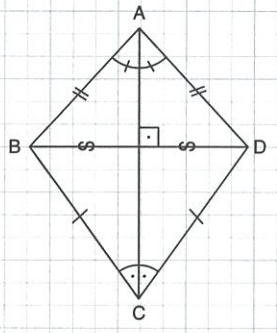
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	D	A	A	D	D	B	C	D	E	D	C	D	B	A	C



DELTOİD

DELTOID

ÖZELLİK|Property 1

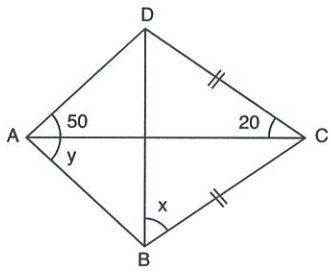


ABCD deltoid

ABCD deltoid

$m(\widehat{ABC}) = m(\widehat{ADC})$

1.



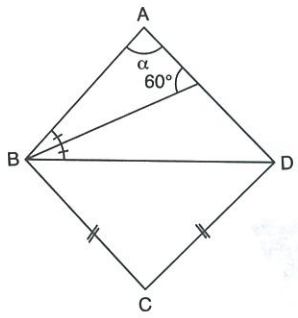
ABCD deltoid

ABCD deltoid

$\Rightarrow x - y = ?$

20

2.



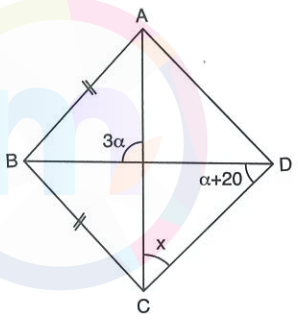
ABCD deltoid

ABCD deltoid

$\Rightarrow \alpha = ?$

100

3.



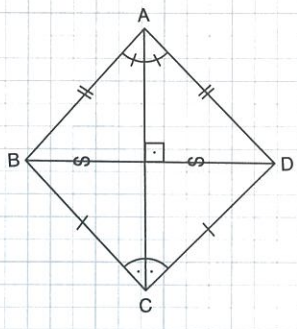
ABCD deltoid

ABCD deltoid

$\Rightarrow x = ?$

40

ÖZELLİK|Property 2

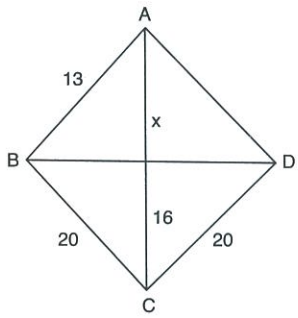


ABCD deltoid

ABCD deltoid

$[AC] \perp [BD]$

1.



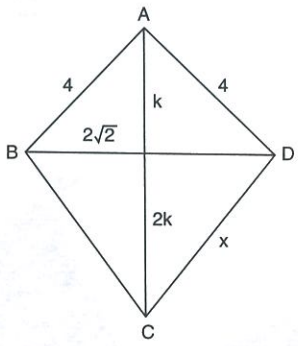
ABCD deltoid

ABCD deltoid

$\Rightarrow x = ?$

5

2.



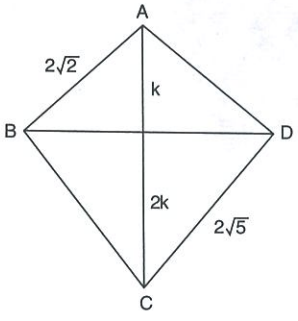
ABCD deltoid

ABCD deltoid

$\Rightarrow x = ?$

$2\sqrt{10}$

3.



ABCD deltoid

ABCD deltoid

$\Rightarrow |BD| = ?$

4

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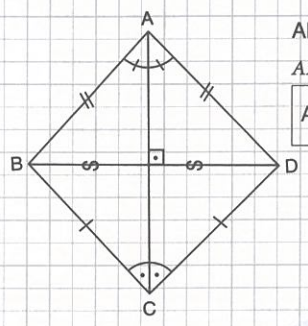
ÖZELLİK | Property 3

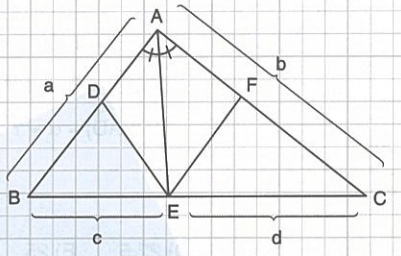


ABCD deltoid

ABCD deltoid

$$A(ABCD) = \frac{1}{2} |AC| \cdot |BD|$$

ÖZELLİK | Property 4

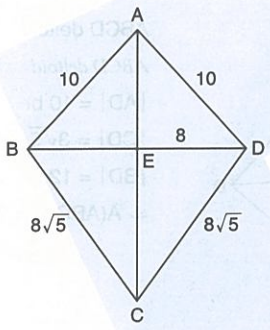


ADEF deltoid

ADEF deltoid

$$\frac{a}{c} = \frac{b}{d}$$

1.



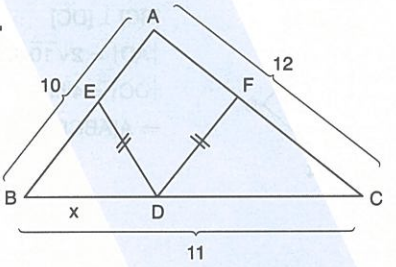
ABCD deltoid

ABCD deltoid

⇒ A(ABCD) = ?

176

1.



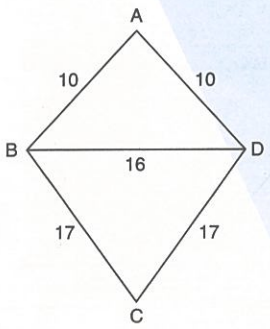
AEDF deltoid

ABCD deltoid

⇒ x = ?

5

2.



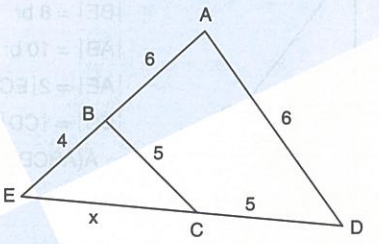
ABCD deltoid

ABCD deltoid

⇒ A(ABCD) = ?

168

2.



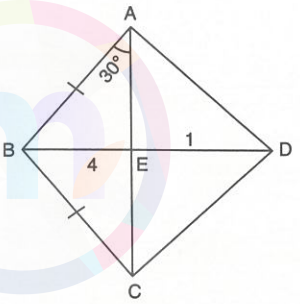
ABCD deltoid

ABCD deltoid

⇒ x = ?

$\frac{25}{3}$

3.



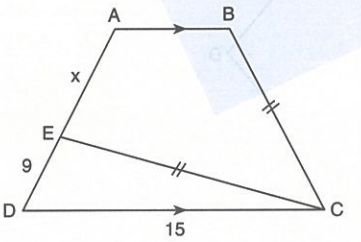
ABCD deltoid

ABCD deltoid

⇒ A(ABCD) = ?

$20\sqrt{3}$

3.



ABCE deltoid

ABCE deltoid

[AB] // [DC]

⇒ x = ?

6

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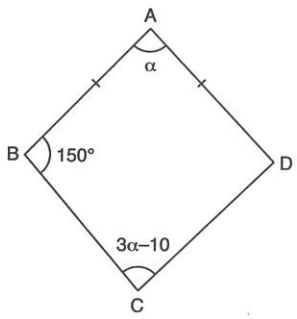
PUZA YAYINLARI
PUZA YAYINLARI

1.



ABCD deltoid

ABCD deltoid

$|AB| = |AD|$

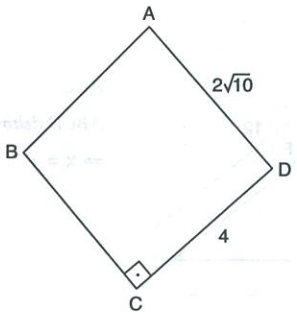
$m(\widehat{ABC}) = 150°$

$m(\widehat{BCD}) = 3\alpha - 10°$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 15 B) 17,5 C) 20 D) 22,5 E) 25

2.



ABCD deltoid

ABCD deltoid

$[BC] \perp [DC]$

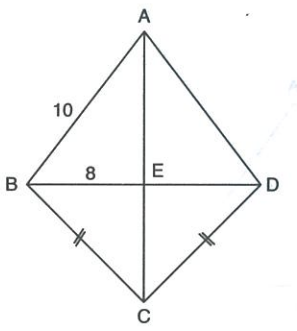
$|AD| = 2\sqrt{10}$ br

$|DC| = 4$ br

$\Rightarrow A(ABCD) = ?$

A) 32 B) 24 C) 8 D) 6 E) 4

3.



ABCD deltoid

ABCD deltoid

$|BE| = 8$ br

$|AB| = 10$ br

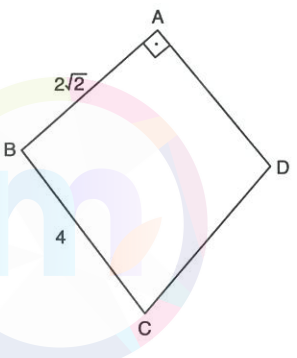
$|AE| = 2|EC|$

$|BC| = |CD|$

$\Rightarrow A(ABCD) = ?$

A) 72 B) 54 C) 48 D) 36 E) 18

4.



ABCD deltoid

ABCD deltoid

$[AB] \perp [AD]$

$|AB| = |AD|$

$|AB| = 2\sqrt{2}$ br

$|BC| = 4$ br

$\Rightarrow A(ABCD) = ?$

A) $4\sqrt{3}$ B) $2\sqrt{3}+4$ C) $4\sqrt{3}+4$ D) $8\sqrt{3}$ E) $8\sqrt{3}+4$

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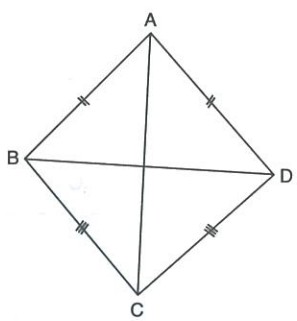
5.



ABCD deltoid

ABCD deltoid

$|BA| = |AD|$

$|BC| = |CD|$

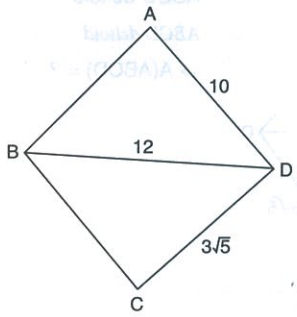
$|AC| = 10$ br

$|BD| = 6$ br

$\Rightarrow A(ABCD) = ?$

A) 15 B) $15\sqrt{3}$ C) 30 D) $30\sqrt{3}$ E) 60

6.



ABCD deltoid

ABCD deltoid

$|AD| = 10$ br

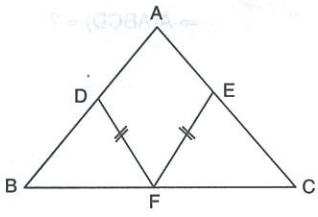
$|CD| = 3\sqrt{5}$ br

$|BD| = 12$ br

$\Rightarrow A(ABCD) = ?$

A) 21 B) 33 C) 42 D) 44 E) 66

7.



ADFE deltoid

ADFE deltoid

$|BF| = 4$ br

$|FC| = 3$ br

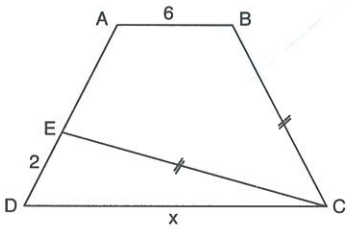
$|AB| = 8$ br

$|DF| = |FE|$

$\Rightarrow |AC| = ?$

A) 3 B) 4 C) 6 D) 8 E) 9

8.



ABCE deltoid

ABCE deltoid

$[AB] \,//\, [DC]$

$|EC| = |BC|$

$|AB| = 6$ br

$|DE| = 2$ br

$\Rightarrow |DC| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 16

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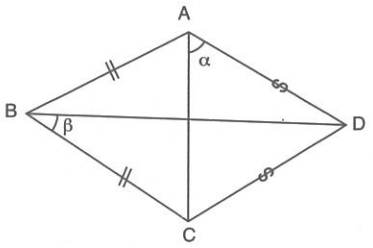
PUZA YAYINLARI

PUZA YAYINLARI

9.



ABCD deltoid

ABCD deltoid

$m(\widehat{BAC}) = 48°$

$m(\widehat{BDC}) = 24°$

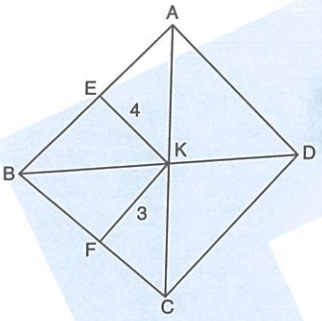
$m(\widehat{CAD}) = \alpha$

$m(\widehat{DBC}) = \beta$

$\Rightarrow \alpha + \beta = ?$

A) 18 B) 72 C) 96 D) 98 E) 108

10.



ABCD deltoid

ABCD deltoid

$|AE| = |EB|$

$|BF| = |FC|$

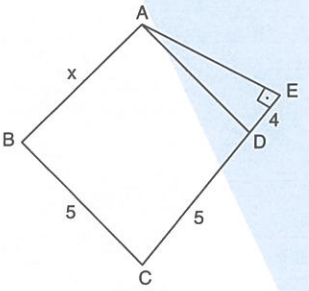
$|KE| = 4$ br

$|KF| = 3$ br

$\Rightarrow$ Ç(ABCD) = ?

A) 14 B) 21 C) 28 D) 35 E) 42

11.



[AE] ⊥ [CE]

ABCD deltoid

ABCD deltoid

$|DE| = 4$ br

$|CD| = 5$ br

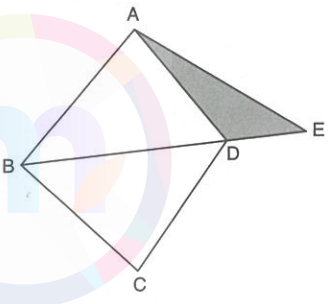
$|BC| = 5$ br

$2m(\widehat{DAE}) = m(\widehat{BAD})$

$\Rightarrow |AB| = x = ?$

A) 15 B) 13 C) 12 D) $4\sqrt{10}$ E) $2\sqrt{37}$

12.



ABCD deltoid

ABCD deltoid

$|AB| = |AD| = 16$ br

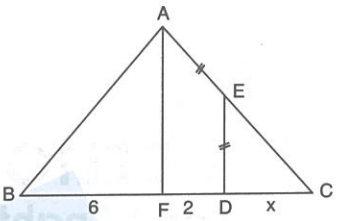
$m(\widehat{BAD}) = 120°$

$m(\widehat{DAE}) = 15°$

$\Rightarrow$ A(ADE) = ?

A) 64 B) $48\sqrt{3}$ C) $48\sqrt{2}$ D) 48 E) $16\sqrt{3}$

13.



ABDE deltoid

ABDE deltoid

$|AE| = |ED|$

$[AF] \,//\, [DE]$

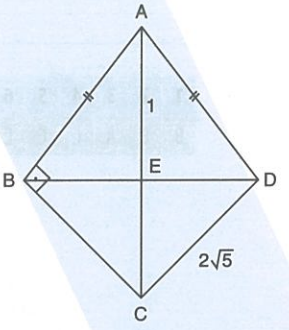
$|BF| = 6$ br

$|FD| = 2$ br

$\Rightarrow |DC| = x = ?$

A) 2 B) $\frac{8}{3}$ C) 3 D) $\frac{15}{4}$ E) 5

14.



ABCD deltoid

ABCD deltoid

$[AB] \perp [BC]$

$|AB| = |AD|$

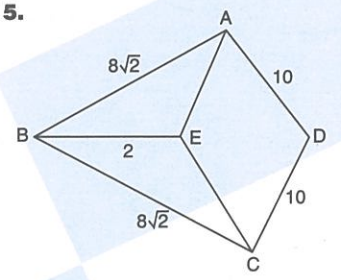
$|AE| = 1$ br

$|CD| = 2\sqrt{5}$ br

$\Rightarrow |EC| = x = ?$

A) 5 B) 4 C) $2\sqrt{3}$ D) 2 E) $\sqrt{3}$

15.



ABCD deltoid

ABCD deltoid

AECD eşkenar dörtgen

AECD rhombus

$|AB| = |BC| = 8\sqrt{2}$ br

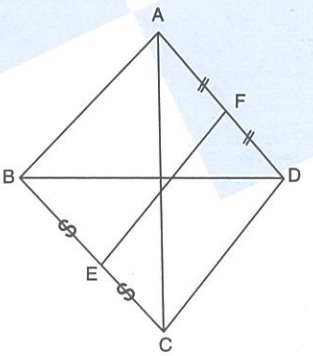
$|AD| = |DC| = 10$ br

$|BE| = 2$ br

$\Rightarrow$ A(AECD) = ?

A) 32 B) 48 C) 54 D) 72 E) 96

16.



ABCD deltoid

ABCD deltoid

$|AF| = |FD|$

$|BE| = |EC|$

$|AC| = 8$ br

$|BD| = 16$ br

$\Rightarrow |EF| = ?$

A) 16 B) $8\sqrt{5}$ C) 8 D) $4\sqrt{5}$ E) 4

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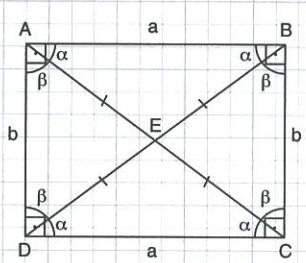
DELTOİD DELTOID
Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	B	A	C	C	E	C	B	E	C	D	A	B	B	E	D

DİKDÖRTGEN
RECTANGLE

ÖZELLİK|Property 1



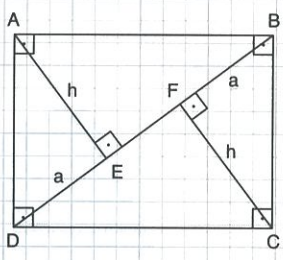
ABCD dikdörtgen

ABCD rectangle

Ç(ABCD) = 2(a + b)

A(ABCD) = a · b

ÖZELLİK|Property 2



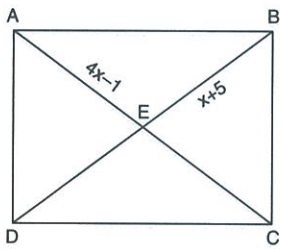
ABCD dikdörtgen

ABCD rectangle

|BF| = |DE|

|FC| = |AE|

1.



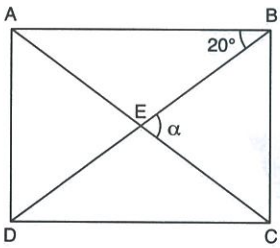
ABCD dikdörtgen

ABCD rectangle

⇒ x = ?

2

2.



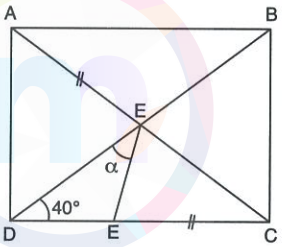
ABCD dikdörtgen

ABCD rectangle

⇒ α = ?

40

3.



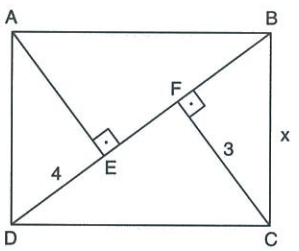
ABCD dikdörtgen

ABCD rectangle

⇒ α = ?

30

1.



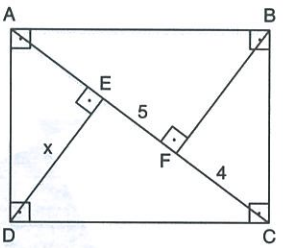
ABCD dikdörtgen

ABCD rectangle

⇒ x = ?

5

2.



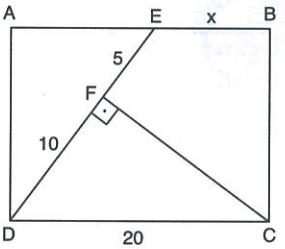
ABCD dikdörtgen

ABCD rectangle

⇒ x = ?

6

3.



ABCD dikdörtgen

ABCD rectangle

⇒ x = ?

12,5

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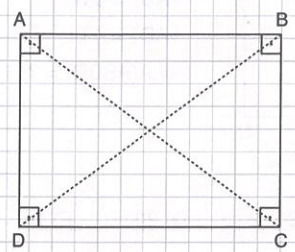
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 3



ABCD dikdörtgen

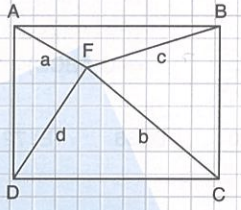
ABCD rectangle

$|AC| = |BD|$

Köşegenler eşit

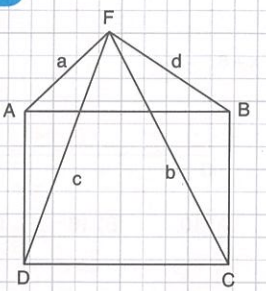
Diagonals are equal

ÖZELLİK|Property 4



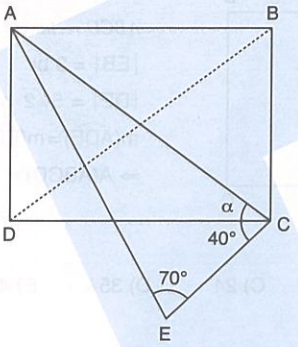
ABCD dikdörtgen

ABCD rectangle



$a^2 + b^2 = c^2 + d^2$

1.

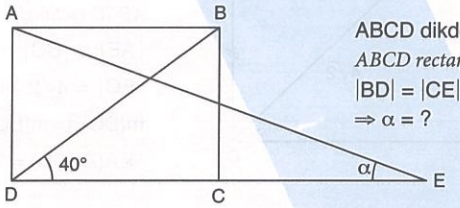


$|AE| = |BD|$

$\Rightarrow \alpha = ?$

30

2.



ABCD dikdörtgen

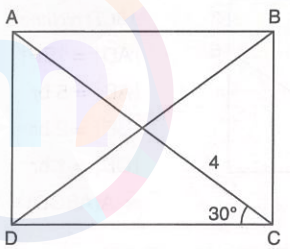
ABCD rectangle

$|BD| = |CE|$

$\Rightarrow \alpha = ?$

20

3.



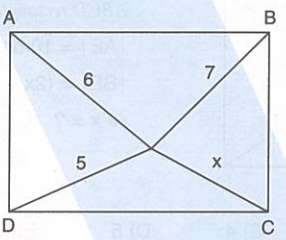
ABCD dikdörtgen

ABCD rectangle

$\Rightarrow$ A(ABCD) = ?

$16\sqrt{3}$

1.



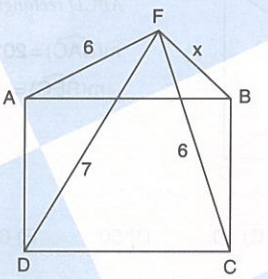
ABCD dikdörtgen

ABCD rectangle

$\Rightarrow x = ?$

$\sqrt{38}$

2.



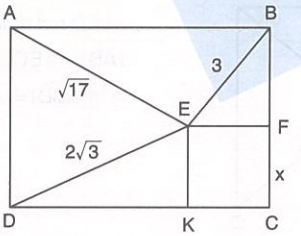
ABCD dikdörtgen

ABCD rectangle

$\Rightarrow x = ?$

$\sqrt{23}$

3.



ABCD dikdörtgen

ABCD rectangle

EFCK kare

EFCK square

$\Rightarrow x = ?$

$\sqrt{2}$

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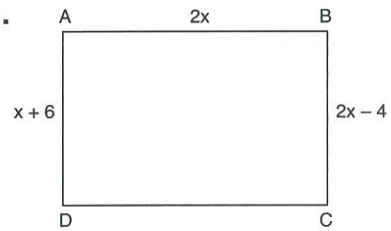
PUZA YAYINLARI
PUZA YAYINLARI

1.



ABCD dikdörtgen

ABCD rectangle

$|BC| = (2x - 4)$ br

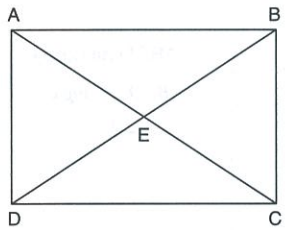
$|AD| = (x + 6)$ br

$|AB| = (2x)$ br

$\Rightarrow$ Ç(ABCD) = ?

A) 10 B) 16 C) 20 D) 36 E) 72

2.



ABCD dikdörtgen

ABCD rectangle

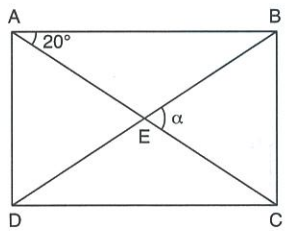
$|AE| = 10$ br

$|BE| = (2x + 4)$ br

$\Rightarrow x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

3.



ABCD dikdörtgen

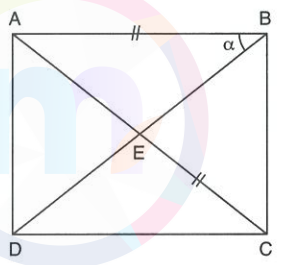
ABCD rectangle

$m(\widehat{BAC}) = 20°$

$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

4.



ABCD dikdörtgen

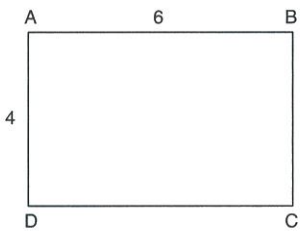
ABCD rectangle

$|AB| = |EC|$

$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 15 B) 30 C) 45 D) 60 E) 75

5.



ABCD dikdörtgen

ABCD rectangle

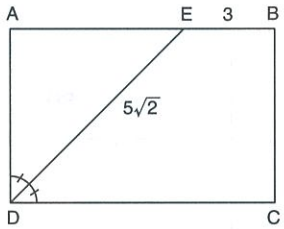
$|AB| = 6$ br

$|AD| = 4$ br

$\Rightarrow$ A(ABCD) = ?

A) 6 B) 10 C) 12 D) 20 E) 24

6.



ABCD dikdörtgen

ABCD rectangle

$|EB| = 3$ br

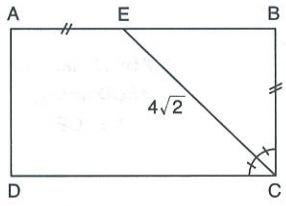
$|DE| = 5\sqrt{2}$ br

$m(\widehat{ADE}) = m(\widehat{EDC})$

$\Rightarrow$ A(ABCD) = ?

A) 15 B) 20 C) 24 D) 35 E) 40

7.



ABCD dikdörtgen

ABCD rectangle

$|AE| = |BC|$

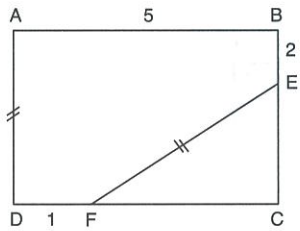
$|EC| = 4\sqrt{2}$ br

$m(\widehat{DCE}) = m(\widehat{ECB})$

$\Rightarrow$ A(ABCD) = ?

A) 16 B) 28 C) 32 D) 36 E) 40

8.



ABCD dikdörtgen

ABCD rectangle

$|AD| = |EF|$

$|AB| = 5$ br

$|BE| = 2$ br

$|DF| = 1$ br

$\Rightarrow$ A(ABCD) = ?

A) 20 B) 25 C) 30 D) 35 E) 40

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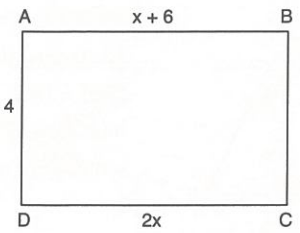
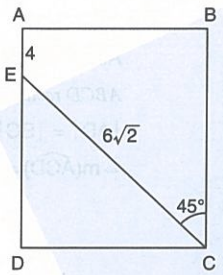
9.



ABCD dikdörtgen
ABCD rectangle
$|AB| = (x + 6)$ br
$|AD| = 4$ br
$|DC| = (2x)$ br
$\Rightarrow$ A(ABCD) = ?

A) 36 B) 40 C) 48 D) 50 E) 56

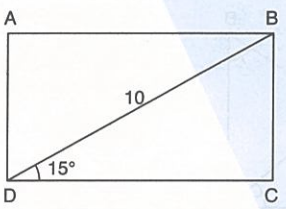
10.



ABCD dikdörtgen
ABCD rectangle
$|AE| = 4$ br
$|EC| = 6\sqrt{2}$ br
$m(\widehat{ECB}) = 45°$
$\Rightarrow$ A(ABCD) = ?

A) 60 B) 56 C) 48 D) 44 E) 40

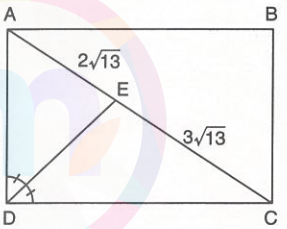
11.



ABCD dikdörtgen
ABCD rectangle
$|BD| = 10$ br
$m(\widehat{BDC}) = 15°$
$\Rightarrow$ A(ABCD) = ?

A) $\frac{25}{2}$ B) 20 C) 25 D) 30 E) 35

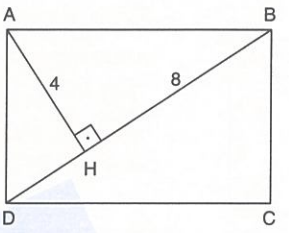
12.



ABCD dikdörtgen
ABCD rectangle
[DE] açıortay
[DE] bisector
$|AE| = 2\sqrt{13}$ br
$|EC| = 3\sqrt{13}$ br
$\Rightarrow$ A(ABCD) = ?

A) 100 B) 120 C) 130 D) 140 E) 150

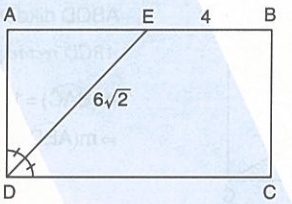
13.



ABCD dikdörtgen
ABCD rectangle
$[AH] \perp [BD]$
$|AH| = 4$ br
$|BH| = 8$ br
$\Rightarrow$ Ç(ABCD) = ?

A) $4\sqrt{5}$ B) $8\sqrt{5}$ C) $10\sqrt{5}$ D) $12\sqrt{5}$ E) $18\sqrt{5}$

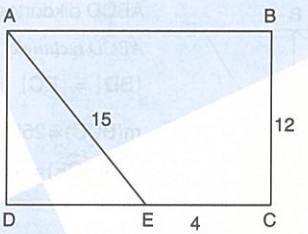
14.



ABCD dikdörtgen
ABCD rectangle
$m(\widehat{ADE}) = m(\widehat{EDC})$
$|EB| = 4$ br
$|DE| = 6\sqrt{2}$ br
$\Rightarrow$ Ç(ABCD) = ?

A) 24 B) 30 C) 32 D) 36 E) 40

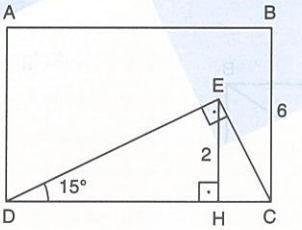
15.



ABCD dikdörtgen
ABCD rectangle
$|AE| = 15$ br
$|EC| = 4$ br
$|BC| = 12$ br
$\Rightarrow$ Ç(ABCD) = ?

A) 30 B) 40 C) 50 D) 60 E) 70

16.

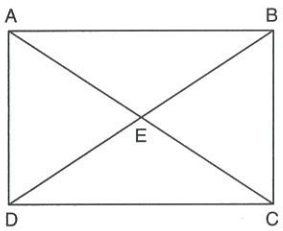


ABCD dikdörtgen
ABCD rectangle
$[EH] \perp [DC]$
$[DE] \perp [EC]$
$|BC| = 6$ br
$|EH| = 2$ br
$m(\widehat{EDC}) = 15°$
$\Rightarrow$ Ç(ABCD) = ?

A) 16 B) 20 C) 26 D) 28 E) 30

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

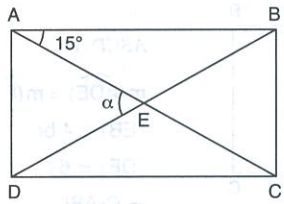
1.



ABCD dikdörtgen
ABCD rectangle
$|AE| = (3x - 4)$ br
$|DE| = (x + 2)$ br
$\Rightarrow |AC| = ?$

A) 3 B) 6 C) 10 D) 12 E) 15

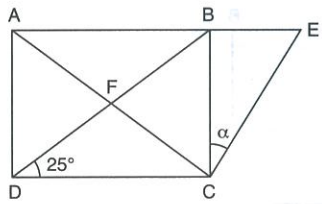
2.



ABCD dikdörtgen
ABCD rectangle
$m(\widehat{BAC}) = 15°$
$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

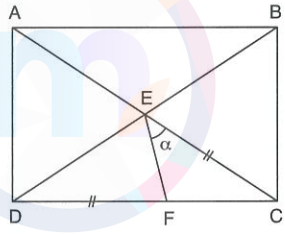
3.



ABCD dikdörtgen
ABCD rectangle
$|BD| = |EC|$
$m(\widehat{BDC}) = 25°$
$\Rightarrow m(\widehat{BCE}) = \alpha = ?$

A) 25 B) 35 C) 45 D) 55 E) 65

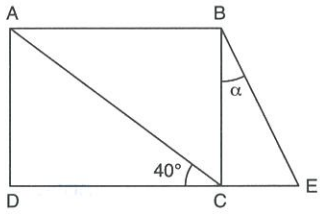
4.



ABCD dikdörtgen
ABCD rectangle
$|EC| = |DF|$
$m(\widehat{DCA}) = 20°$
$\Rightarrow m(\widehat{FEC}) = \alpha = ?$

A) 60 B) 70 C) 75 D) 80 E) 85

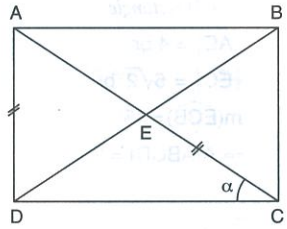
5.



ABCD dikdörtgen
ABCD rectangle
$|BE| = |AC|$
$m(\widehat{ACD}) = 40°$
$\Rightarrow m(\widehat{CBE}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

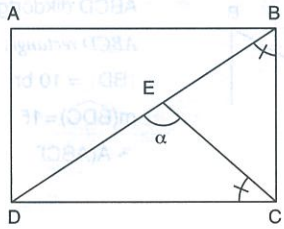
6.



ABCD dikdörtgen
ABCD rectangle
$|AD| = |EC|$
$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 15 B) 20 C) 30 D) 45 E) 75

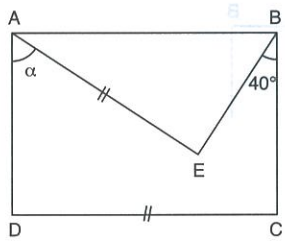
7.



ABCD dikdörtgen
ABCD rectangle
$m(\widehat{DBC}) = m(\widehat{ECD})$
$\Rightarrow m(\widehat{DEC}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 75 E) 90

8.



ABCD dikdörtgen
ABCD rectangle
$m(\widehat{EBC}) = 40°$
$|AE| = |DC|$
$\Rightarrow m(\widehat{DAE}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

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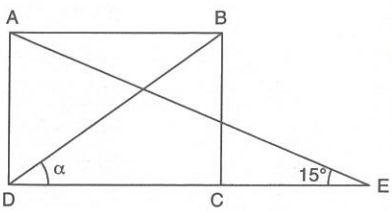
9.



ABCD dikdörtgen

ABCD rectangle

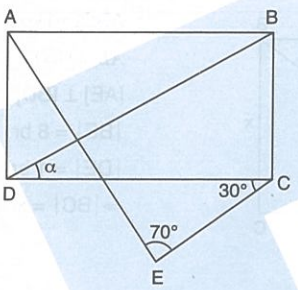
$|BD| = |CE|$

$m(\widehat{AED}) = 15°$

$\Rightarrow m(\widehat{BDE}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

10.



ABCD dikdörtgen

ABCD rectangle

$|BD| = |AE|$

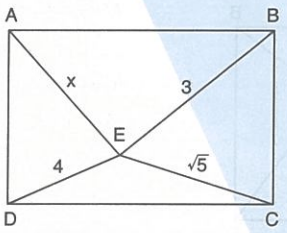
$m(\widehat{DCE}) = 30°$

$m(\widehat{AEC}) = 70°$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 50 B) 40 C) 35 D) 30 E) 25

11.



ABCD dikdörtgen

ABCD rectangle

$|EC| = \sqrt{5}$ br

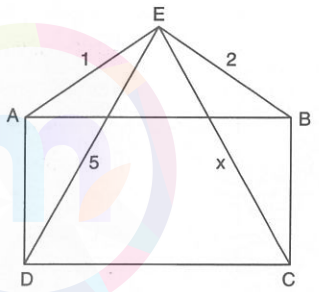
$|BE| = 3$ br

$|DE| = 4$ br

$\Rightarrow |AE| = x = ?$

A) $\sqrt{6}$ B) $2\sqrt{5}$ C) $\sqrt{5}$ D) $2\sqrt{6}$ E) $2\sqrt{3}$

12.



ABCD dikdörtgen

ABCD rectangle

$|AE| = 1$ br

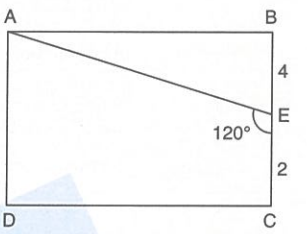
$|BE| = 2$ br

$|DE| = 5$ br

$\Rightarrow |CE| = x = ?$

A) $\sqrt{5}$ B) $\sqrt{7}$ C) $2\sqrt{5}$ D) $2\sqrt{7}$ E) 7

13.



ABCD dikdörtgen

ABCD rectangle

$|BE| = 4$ br

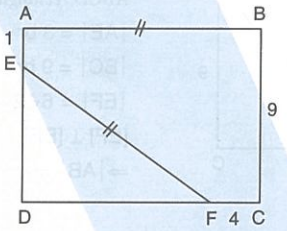
$|EC| = 2$ br

$m(\widehat{AEC}) = 120°$

$\Rightarrow$ Ç(ABCD) = ?

A) $8\sqrt{3}+12$ B) $8\sqrt{3}+6$ C) $4\sqrt{3}+12$ D) $4\sqrt{3}+6$ E) $24\sqrt{3}$

14.



ABCD dikdörtgen

ABCD rectangle

$|AE| = 1$ br

$|FC| = 4$ br

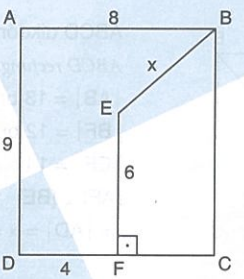
$|BC| = 9$ br

$|AB| = |EF|$

$\Rightarrow$ Ç(ABCD) = ?

A) 10 B) 20 C) 28 D) 30 E) 38

15.



ABCD dikdörtgen

ABCD rectangle

$[EF] \perp [DC]$

$|AB| = 8$ br

$|AD| = 9$ br

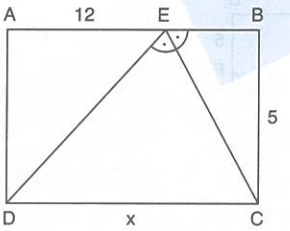
$|DF| = 4$ br

$|EF| = 6$ br

$\Rightarrow |EB| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

16.



ABCD dikdörtgen

ABCD rectangle

$m(\widehat{DEC}) = m(\widehat{CEB})$

$|AE| = 12$ br

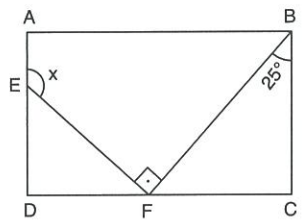
$|BC| = 5$ br

$\Rightarrow |DC| = x = ?$

A) 6 B) 7 C) 10 D) 13 E) 15

PUZA YAYINLARI

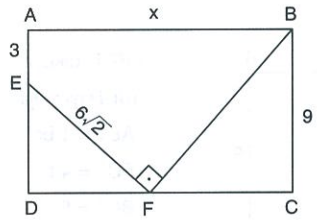
1.



ABCD dikdörtgen
ABCD rectangle
[EF] ⊥ [BF]
$m(\widehat{FBC}) = 25°$
$\Rightarrow m(\widehat{AEF}) = x = ?$

A) 120 B) 115 C) 110 D) 100 E) 95

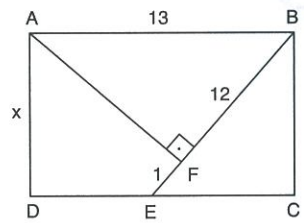
2.



ABCD dikdörtgen
ABCD rectangle
|AE| = 3 br
|BC| = 9 br
$|EF| = 6\sqrt{2}$ br
[EF] ⊥ [BF]
$\Rightarrow |AB| = x = ?$

A) 6 B) 10 C) 15 D) 16 E) 18

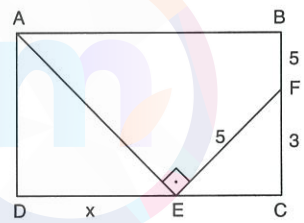
3.



ABCD dikdörtgen
ABCD rectangle
|AB| = 13 br
|BF| = 12 br
|EF| = 1 br
[AF] ⊥ [BE]
$\Rightarrow |AD| = x = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

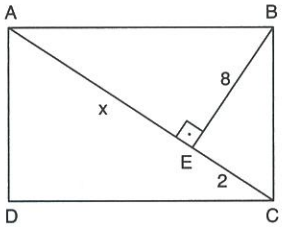
4.



ABCD dikdörtgen
ABCD rectangle
[AE] ⊥ [EF]
|EF| = |BF| = 5 br
|FC| = 3 br
$\Rightarrow |DE| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

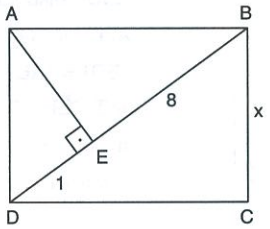
5.



ABCD dikdörtgen
ABCD rectangle
|BE| = 8 br
|EC| = 2 br
[BE] ⊥ [AC]
$\Rightarrow |AE| = x = ?$

A) 1 B) 2 C) 16 D) 32 E) 36

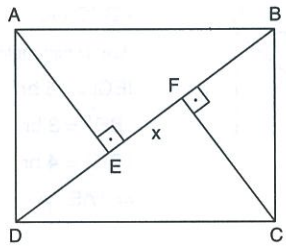
6.



ABCD dikdörtgen
ABCD rectangle
[AE] ⊥ [BD]
|BE| = 8 br
|DE| = 1 br
$\Rightarrow |BC| = x = ?$

A) $\sqrt{2}$ B) $2\sqrt{2}$ C) 3 D) 4 E) $4\sqrt{2}$

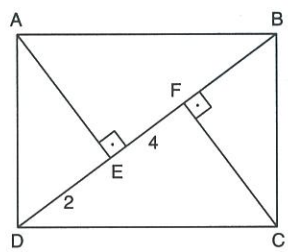
7.



ABCD dikdörtgen
ABCD rectangle
[CF] ⊥ [BD]
[AE] ⊥ [BD]
|CF| = 6 br
|DF| = 12 br
$\Rightarrow |EF| = x = ?$

A) 3 B) 6 C) 8 D) 9 E) 11

8.



ABCD dikdörtgen
ABCD rectangle
[CF] ⊥ [BD]
[AE] ⊥ [BD]
|DE| = 2 br
|EF| = 4 br
$\Rightarrow A(ABCD) = ?$

A) $4\sqrt{3}$ B) $8\sqrt{3}$ C) $16\sqrt{3}$ D) $20\sqrt{3}$ E) $24\sqrt{3}$

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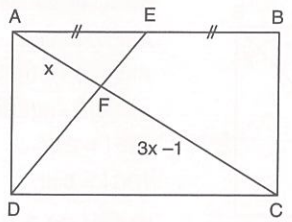
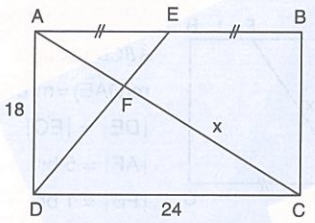
9.



ABCD dikdörtgen
ABCD rectangle
|AE| = |EB|
|FC| = (3x – 1) br
⇒ |AF| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

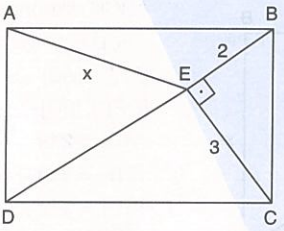
10.



ABCD dikdörtgen
ABCD rectangle
|AE| = |EB|
|AD| = 18 br
|DC| = 24 br
⇒|FC| = x = ?

A) 19 B) 20 C) 21 D) 22 E) 23

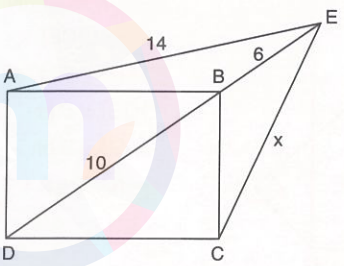
11.



ABCD dikdörtgen
ABCD rectangle
[BD] köşegen
[BD] diagonal line
[CE] ⊥ [BD]
|CE| = 3 br
|BE| = 2 br
⇒|AE| = x = ?

A) $\frac{\sqrt{13}}{2}$ B) $\sqrt{13}$ C) $\frac{\sqrt{61}}{4}$ D) $\frac{\sqrt{61}}{2}$ E) $\sqrt{61}$

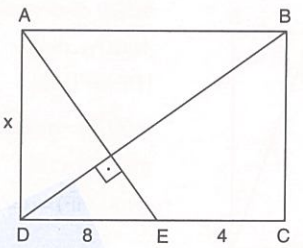
12.



ABCD dikdörtgen
ABCD rectangle
|AE| = 14 br
|BD| = 10 br
|BE| = 6 br
⇒|CE| = x = ?

A) 100 B) $4\sqrt{6}$ C) 9 D) $6\sqrt{2}$ E) 8

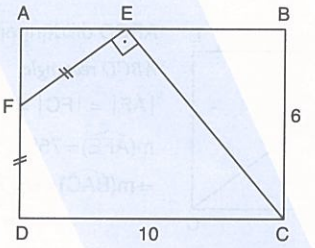
13.



ABCD dikdörtgen
ABCD rectangle
[AE] ⊥ [BD]
|DE| = 8 br
|EC| = 4 br
⇒|AD| = x = ?

A) 2 B) $\sqrt{6}$ C) $2\sqrt{6}$ D) 6 E) $4\sqrt{6}$

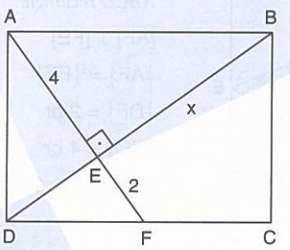
14.



ABCD dikdörtgen
ABCD rectangle
[CE] ⊥ [EF]
|EF| = |FD|
|DC| = 10 br
|BC| = 6 br
⇒ A(AEF) = ?

A) 10 B) 8 C) 4 D) $\frac{8}{3}$ E) 2

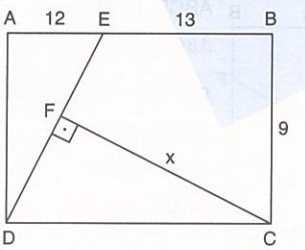
15.



ABCD dikdörtgen
ABCD rectangle
[AF] ⊥ [BD]
|AE| = 4 br
|EF| = 2 br
⇒|BE| = x = ?

A) $2\sqrt{2}$ B) $4\sqrt{2}$ C) $8\sqrt{2}$ D) 9 E) $9\sqrt{2}$

16.

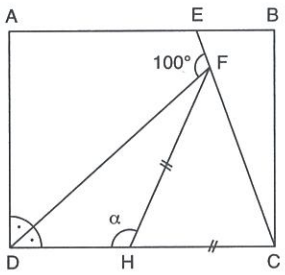


ABCD dikdörtgen
ABCD rectangle
[CF] ⊥ [DE]
|BE| = 13 br
|EA| = 12 br
|BC| = 9 br
⇒|CF| = x = ?

A) 10 B) 12 C) 13 D) 15 E) 16

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



ABCD dikdörtgen

ABCD rectangle

$|HF| = |HC|$

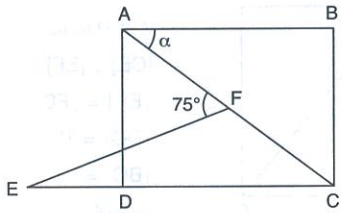
$m(\widehat{ADF}) = m(\widehat{FDC})$

$m(\widehat{EFD}) = 100°$

$\Rightarrow m(\widehat{DHF}) = \alpha = ?$

A) 100 B) 110 C) 115 D) 120 E) 125

2.



ABCD dikdörtgen

ABCD rectangle

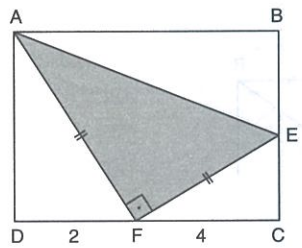
$|AF| = |FC| = |ED|$

$m(\widehat{AFE}) = 75°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 20 B) 25 C) 30 D) 45 E) 50

3.



ABCD dikdörtgen

ABCD rectangle

$[AF] \perp [FE]$

$|AF| = |FE|$

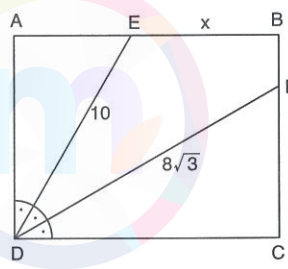
$|DF| = 2$ br

$|FC| = 4$ br

$\Rightarrow A(AFE) = ?$

A) 10 B) 8 C) 6 D) 5 E) 4

4.



ABCD dikdörtgen

ABCD rectangle

$m(\widehat{ADE}) = m(\widehat{EDF}) = m(\widehat{FDC})$

$|DF| = 8\sqrt{3}$ br

$|DE| = 10$ br

$\Rightarrow |EB| = x = ?$

A) $4\sqrt{3}$ B) 7 C) 12 D) 14 E) 16

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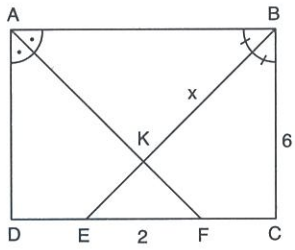
5.



ABCD dikdörtgen

ABCD rectangle

$m(\widehat{DAF}) = m(\widehat{FAB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

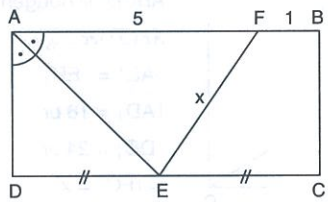
$|EF| = 2$ br

$|BC| = 6$ br

$\Rightarrow |BK| = x = ?$

A) $\sqrt{2}$ B) $3\sqrt{2}$ C) $5\sqrt{2}$ D) 10 E) 12

6.



ABCD dikdörtgen

ABCD rectangle

$m(\widehat{DAE}) = m(\widehat{EAB})$

$|DE| = |EC|$

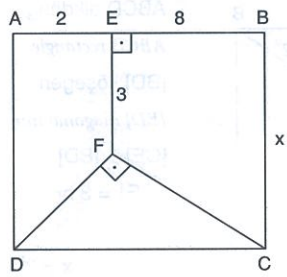
$|AF| = 5$ br

$|FB| = 1$ br

$\Rightarrow |EF| = x = ?$

A) 3 B) $3\sqrt{2}$ C) $\sqrt{13}$ D) $\sqrt{15}$ E) $\sqrt{21}$

7.



ABCD dikdörtgen

ABCD rectangle

$[EF] \perp [AB]$

$[DF] \perp [FC]$

$|AE| = 2$ br

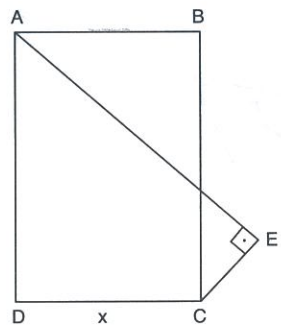
$|EB| = 8$ br

$|EF| = 3$ br

$\Rightarrow |BC| = x = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

8.



ABCD dikdörtgen

ABCD rectangle

$[AE] \perp [CE]$

$|AE| = 7$ br

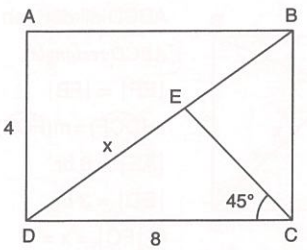
$|CE| = 5$ br

$|AD| = 8$ br

$\Rightarrow |DC| = x = ?$

A) $\sqrt{2}$ B) $\sqrt{3}$ C) $\sqrt{5}$ D) $\sqrt{7}$ E) $\sqrt{10}$

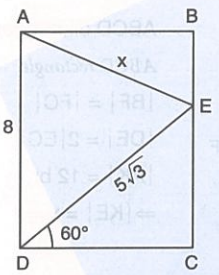
9.



ABCD dikdörtgen
ABCD rectangle
$m(\widehat{DCE}) = 45°$
$|DC| = 8$ br
$|AD| = 4$ br
$\Rightarrow |DE| = x = ?$

A) 24 B) 16 C) $8\sqrt{5}$ D) $4\sqrt{5}$ E) $\frac{8\sqrt{5}}{3}$

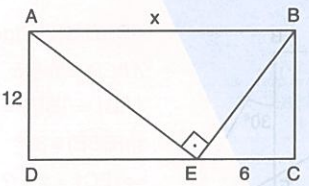
10.



ABCD dikdörtgen
ABCD rectangle
$m(\widehat{EDC}) = 60°$
$|AD| = 8$ br
$|DE| = 5\sqrt{3}$ br
$\Rightarrow |AE| = x = ?$

A) 6 B) 5 C) $\sqrt{21}$ D) $\sqrt{19}$ E) $\sqrt{15}$

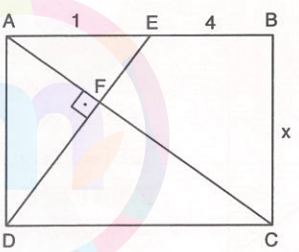
11.



ABCD dikdörtgen
ABCD rectangle
$[AE] \perp [BE]$
$|AD| = 12$ br
$|EC| = 6$ br
$\Rightarrow |AB| = x = ?$

A) 12 B) $12\sqrt{5}$ C) 30 D) $30\sqrt{5}$ E) 32

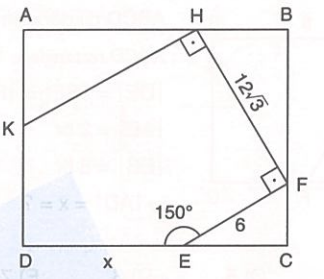
12.



ABCD dikdörtgen
ABCD rectangle
$[DF] \perp [AC]$
$|AE| = 1$ br
$|EB| = 4$ br
$\Rightarrow |BC| = x = ?$

A) $\sqrt{5}$ B) 3 C) $\frac{7}{2}$ D) 4 E) $\frac{9}{2}$

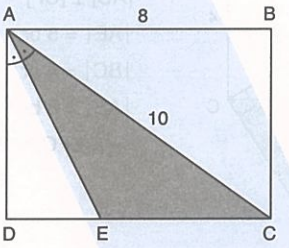
13.



ABCD dikdörtgen
ABCD rectangle
$[KH] \perp [HF]$
$[EF] \perp [HF]$
$m(\widehat{DEF}) = 150°$
$|EF| = 6$ br
$|HF| = 12\sqrt{3}$ br
$|AK| = 2|KD|$
$\Rightarrow |DE| = x = ?$

A) $4\sqrt{3}$ B) $6\sqrt{3}$ C) $10\sqrt{3}$ D) $11\sqrt{3}$ E) $17\sqrt{3}$

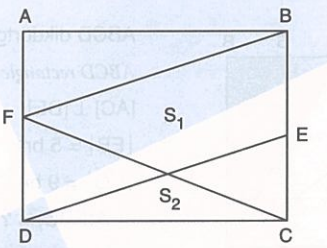
14.



ABCD dikdörtgen
ABCD rectangle
$m(\widehat{DAE}) = m(\widehat{EAC})$
$|AC| = 10$ br
$|AB| = 8$ br
$\Rightarrow A(AEC) = ?$

A) 12 B) 15 C) 20 D) 25 E) 30

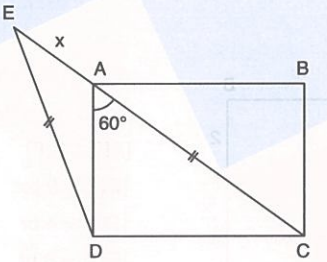
15.



ABCD dikdörtgen
ABCD rectangle
FBED paralelkenar
FBED parallelogram
$S_1 + S_2 = 18$ br^2
$|BE| = 3|EC|$
$\Rightarrow A(ABCD) = ?$

A) 16 B) 24 C) 32 D) 36 E) 40

16.



ABCD dikdörtgen
ABCD rectangle
$m(\widehat{DAC}) = 60°$
$|ED| = |AC|$
$|BC| = 4$ br
$\Rightarrow |EA| = x = ?$

A) $\frac{\sqrt{13}}{2}$ B) $\sqrt{13}$ C) $2-2\sqrt{13}$ D) $2\sqrt{13}$ E) $-2+2\sqrt{13}$

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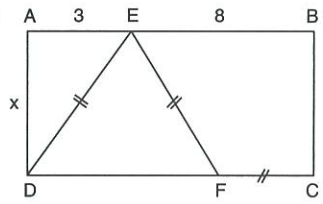
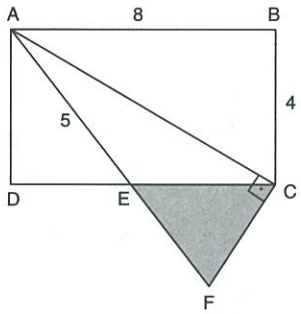
1.



ABCD dikdörtgen
ABCD rectangle
$|DE| = |EF| = |FC|$
$|AE| = 3$ br
$|EB| = 8$ br
$\Rightarrow |AD| = x = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

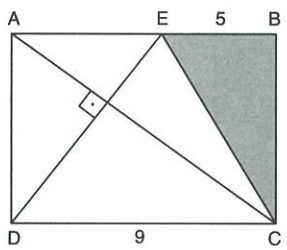
2.



ABCD dikdörtgen
ABCD rectangle
$[AC] \perp [CF]$
$|AE| = 5$ br
$|BC| = 4$ br
$|AB| = 8$ br
$\Rightarrow A(EFC) = ?$

A) 5 B) $4\sqrt{5}$ C) 10 D) $10\sqrt{5}$ E) 20

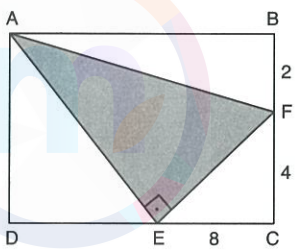
3.



ABCD dikdörtgen
ABCD rectangle
$[AC] \perp [DE]$
$|EB| = 5$ br
$|DC| = 9$ br
$\Rightarrow A(EBC) = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

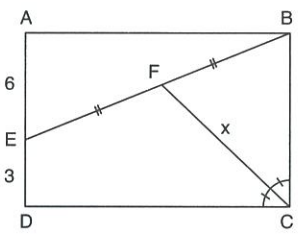
4.



ABCD dikdörtgen
ABCD rectangle
$[AE] \perp [EF]$
$|BF| = 2$ br
$|FC| = 4$ br
$|EC| = 8$ br
$\Rightarrow A(AEF) = ?$

A) 15 B) 20 C) 25 D) 30 E) 60

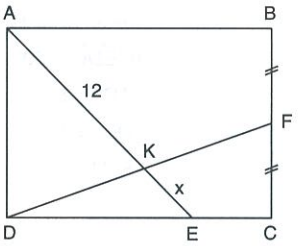
5.



ABCD dikdörtgen
ABCD rectangle
$|EF| = |FB|$
$m(\widehat{DCF}) = m(\widehat{FCB})$
$|AE| = 6$ br
$|ED| = 3$ br
$\Rightarrow |FC| = x = ?$

A) 3 B) 6 C) $6\sqrt{2}$ D) $6\sqrt{3}$ E) 12

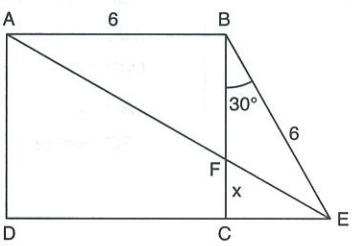
6.



ABCD dikdörtgen
ABCD rectangle
$|BF| = |FC|$
$|DE| = 2|EC|$
$|AK| = 12$ br
$\Rightarrow |KE| = x = ?$

A) 12 B) 10 C) 8 D) 6 E) 4

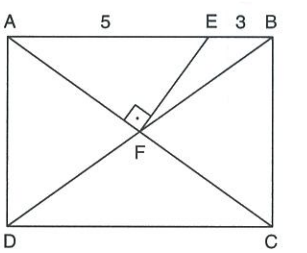
7.



ABCD dikdörtgen
ABCD rectangle
$|AB| = |BE| = 6$ br
$m(\widehat{CBE}) = 30°$
$\Rightarrow |FC| = x = ?$

A) $\frac{\sqrt{2}}{2}$ B) $\frac{\sqrt{3}}{2}$ C) $\sqrt{2}$ D) $\sqrt{3}$ E) $2\sqrt{3}$

8.



ABCD dikdörtgen
ABCD rectangle
$|AE| = 5$ br
$|EB| = 3$ br
$[AF] \perp [FE]$
$\Rightarrow A(ABCD) = ?$

A) 16 B) 28 C) 32 D) 48 E) 64

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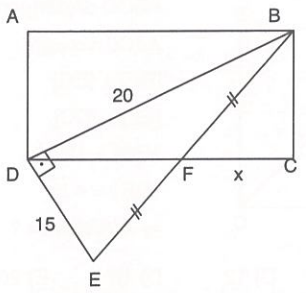
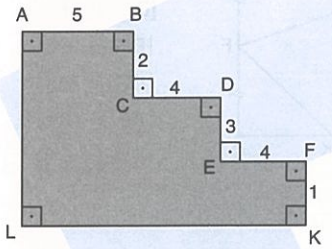
9.



ABCD dikdörtgen
ABCD rectangle
[BD] ⊥ [DE]
|EF| = |FB|
|DB| = 20 br
|DE| = 15 br
⇒|FC| = x = ?

A) 2 B) 3,5 C) 5 D) 7,5 E) 10

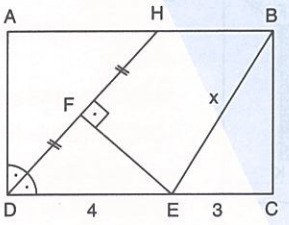
10.



|AB| = 5 br
|CD| = |EF| = 4 br
|DE| = 3 br
|BC| = 2 br
|FK| = 1 br
⇒ Taralı alan = ?
Shaded area = ?

A) 48 B) 50 C) 51 D) 52 E) 54

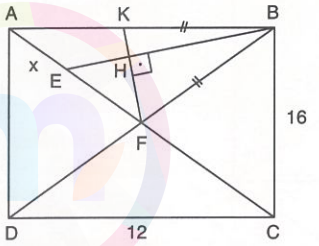
11.



ABCD dikdörtgen
ABCD rectangle
[EF] ⊥ [DH]
|DF| = |FH|
|DE| = 4 br
|EC| = 3 br
⇒|BE| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

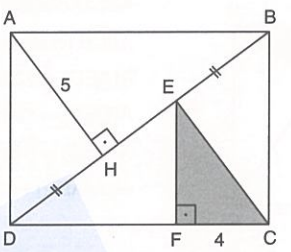
12.



ABCD dikdörtgen
ABCD rectangle
[BH] ⊥ [KF]
|KB| = |FB|
|BC| = 16 br
|DC| = 12 br
⇒|AE| = x = ?

A) 1 B) $\frac{7}{5}$ C) $\frac{18}{7}$ D) $\frac{25}{11}$ E) $\frac{60}{11}$

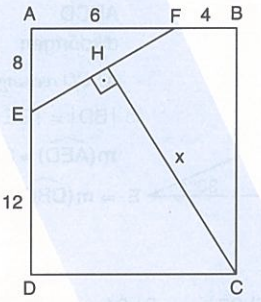
13.



ABCD dikdörtgen
ABCD rectangle
|DH| = |EB|
[AH] ⊥ [DB]
[EF] ⊥ [DC]
|FC| = 4 br
|AH| = 5 br
⇒ A(EFC) = ?

A) 2 B) 4 C) 6 D) 8 E) 12

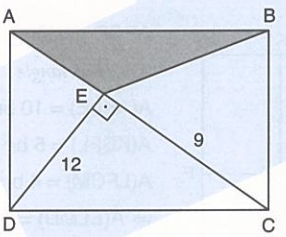
14.



ABCD dikdörtgen
ABCD rectangle
[CH] ⊥ [EF]
|AF| = 6 br
|FB| = 4 br
|AE| = 8 br
|ED| = 12 br
⇒|CH| = x = ?

A) 20 B) 18 C) 16 D) 15,2 E) 11,2

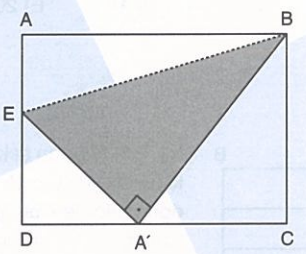
15.



ABCD dikdörtgen
ABCD rectangle
[DE] ⊥ [AC]
|EC| = 9 br
|DE| = 12 br
⇒ A(AEB) = ?

A) 54 B) 72 C) 84 D) 96 E) 184

16.



ABCD dikdörtgen
ABCD rectangle
[EA´] ⊥ [BA´]
|AB| = 17 br
|BC| = 8 br

A noktası $\overrightarrow{EB}$ doğrusu üzerinde katlanarak [DC] kenarı üzerinde A´ noktasına getiriliyor.

Point A is folded over $\overrightarrow{EB}$ line and corresponds to point A´ over [DC] edge.

⇒ A(EA'B) = ?

A) $\frac{17}{4}$ B) $\frac{289}{4}$ C) $\frac{289}{8}$ D) 15 E) 18

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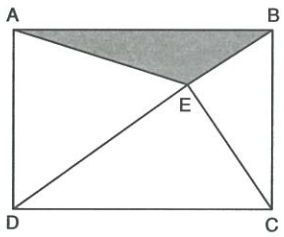
PUZA YAYINLARI

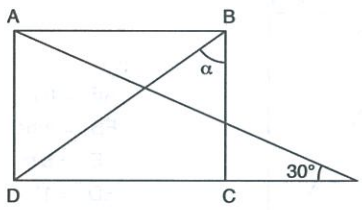
1.



ABCD dikdörtgen
ABCD rectangle
A(AED) = 12 br²
A(DEC) = 10 br²
A(BEC) = 6 br²
⇒ A(ABE) = ?

A) 6 B) 8 C) 10 D) 12 E) 14

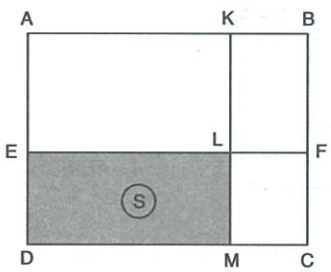
2.



ABCD dikdörtgen
ABCD rectangle
|BD| = |CE|
m(AED) = 32°
⇒ m(DBC) = α = ?

A) 16 B) 26 C) 36 D) 64 E) 70

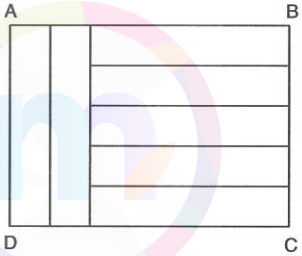
3.



ABCD dikdörtgen
ABCD rectangle
A(AKLE) = 10 br²
A(KBFL) = 5 br²
A(LFCM) = 4 br²
⇒ A(ELMD) = S = ?

A) 4 B) 8 C) 12 D) 16 E) 20

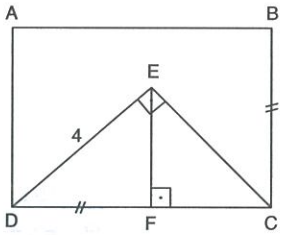
4.



Eş 7 dikdörtgen şekildeki gibi belirtiliyor. Bu dikdörtgenlerden bir tanesinin alanı 20 br²'dir.
The rhombohedrons are specifed as in figure. If one of the surface area of these rhombohedrons is 20 unit²
⇒ Ç(ABCD) = ?

A) 20 B) 22 C) 24 D) 40 E) 48

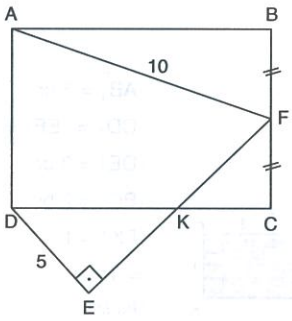
5.



ABCD dikdörtgen
ABCD rectangle
[DE] ⊥ [EC]
[EF] ⊥ [DC]
|BC| = |DF|
|DE| = 4 br
⇒ A(ABCD) = ?

A) 4 B) 8 C) 12 D) 16 E) 20

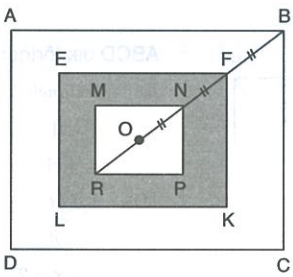
6.



ABCD dikdörtgen
ABCD rectangle
[DE] ⊥ [EF]
|BF| = |FC|
|DE| = 5 br
|AF| = 10 br
⇒ |EF| = ?

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 20 E) 25

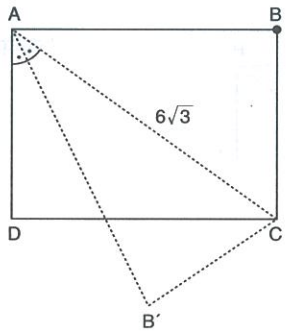
7.



ABCD, EFKL, MNPR dikdörtgen
ABCD, EFKL, MNPR rectangle
A(ABCD) = 165 br²
|ON| = |NF| = |FB|
⇒ Taralı Alan = ?
Shaded Area = ?

A) 31 B) 48 C) 55 D) 69 E) 93

8.



ABCD dikdörtgen
ABCD rectangle
B köşesi [AC] doğrusu üzerine katlanıyor.
Point B is folding [AC] line segment.
m(DAB´) = m(B´AC)
|AC| = $6\sqrt{3}$ br
⇒ A(ABCD) = ?

A) $9\sqrt{3}$ B) $12\sqrt{3}$ C) 16 D) $18\sqrt{3}$ E) $27\sqrt{3}$

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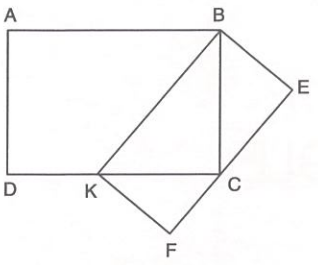
PUZA YAYINLARI
PUZA YAYINLARI

9.



ABCD ve BEFK dikdörtgen

ABCD and BEFK rectangle

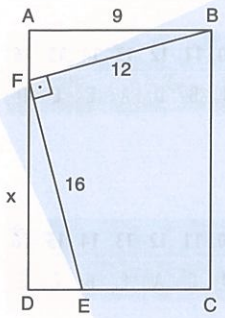
$|DK| = 2|KC|$

$A(BEFK) = 16\ br^2$

$\Rightarrow A(ABCD) = ?$

A) 8 B) 16 C) 24 D) 32 E) 48

10.



ABCD dikdörtgen

ABCD rectangle

$[BF] \perp [FE]$

$|AB| = 9$ br

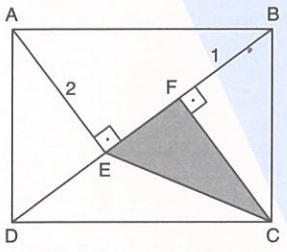
$|FB| = 12$ br

$|FE| = 16$ br

$\Rightarrow |FD| = x = ?$

A) $\frac{9}{2}$ B) 9 C) 12 D) 15 E) 16

11.



ABCD dikdörtgen

ABCD rectangle

$[AE] \perp [BD]$

$[FC] \perp [BD]$

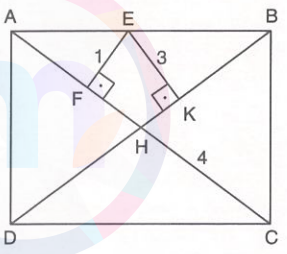
$|AE| = 2$ br

$|FB| = 1$ br

$\Rightarrow A(ECF) = ?$

A) 2 B) 3 C) 6 D) 12 E) 15

12.



ABCD dikdörtgen

ABCD rectangle

$[EF] \perp [AC]$

$[EK] \perp [BD]$

$|CH| = 4$ br

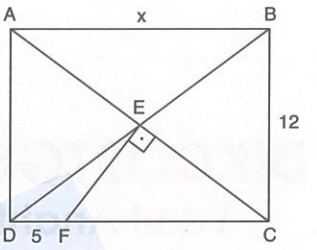
$|EK| = 3$ br

$|EF| = 1$ br

$\Rightarrow A(ABCD) = ?$

A) 8 B) 16 C) 24 D) 32 E) 40

13.



ABCD dikdörtgen

ABCD rectangle

$[EF] \perp [AC]$

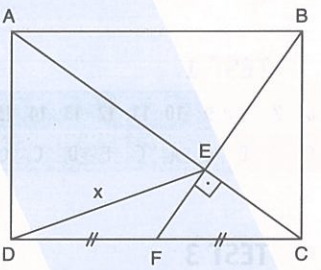
$|BC| = 12$ br

$|DF| = 5$ br

$\Rightarrow |AB| = x = ?$

A) 2 B) 6 C) 9 D) 12 E) 18

14.



ABCD dikdörtgen

ABCD rectangle

$[FE] \perp [AC]$

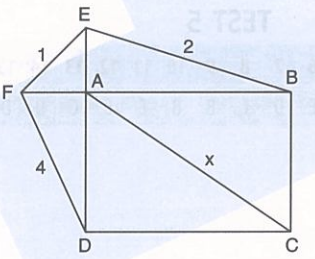
$|FC| = 2\sqrt{3}$ br

$|DF| = |FC|$

$\Rightarrow |DE| = x = ?$

A) $\sqrt{39}$ B) $\sqrt{37}$ C) $\sqrt{35}$ D) $\sqrt{30}$ E) $\sqrt{24}$

15.



ABCD dikdörtgen

ABCD rectangle

F, A, B noktaları doğrusal

F, A, B points are linear

E, A, D noktaları doğrusal

E, A, D points are linear

$|FE| = 1$ br

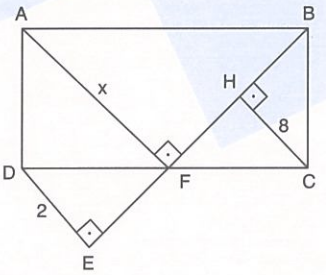
$|EB| = 2$ br

$|FD| = 4$ br

$\Rightarrow |AC| = x = ?$

A) 2 B) $\sqrt{5}$ C) $\sqrt{7}$ D) $\sqrt{13}$ E) $\sqrt{19}$

16.



ABCD dikdörtgen

ABCD rectangle

$[AF] \perp [BE]$

$[CH] \perp [BE]$

$[DE] \perp [BE]$

$|DE| = 2$ br

$|CH| = 8$ br

$\Rightarrow |AF| = x = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

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DİKDÖRTGEN RECTANGLE
Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	B	C	D	E	E	C	B	C	A	C	E	D	C	C	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	E	A	E	C	E	A	B	B	B	D	A	E	E	D

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	A	E	D	C	D	C	A	B	D	B	E	D	B	D

TEST 4

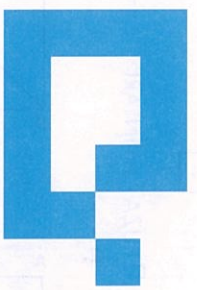
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	E	A	B	C	C	B	E	E	D	C	A	E	B	C	E

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	B	D	C	E	D	C	B	B	E	E	C	D	D	C

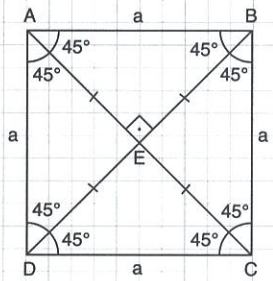
TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	B	B	E	D	C	C	E	E	C	B	D	E	E	E	D



KARE
SQUARE

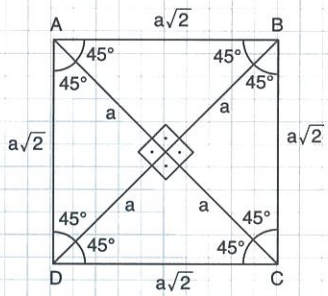
ÖZELLİK|Property 1



ABCD kare
ABCD square

Ç(ABCD) = 4a
A(ABCD) = a^2

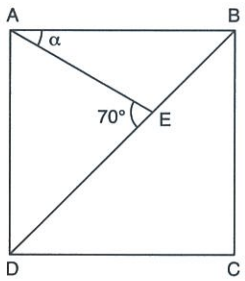
ÖZELLİK|Property 2



ABCD kare
ABCD square

Köşegenler dik kesişir.
Diagonals are intersect perpendicular.

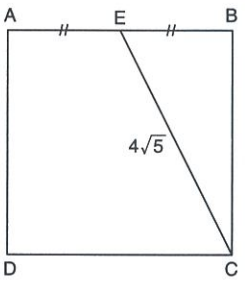
1.



ABCD kare
ABCD square
⇒ α = ?

25

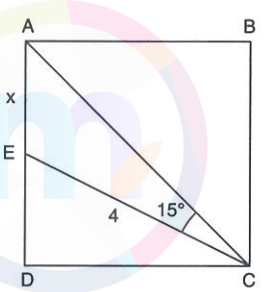
2.



ABCD kare
ABCD square
⇒ A(ABCD) = ?

64

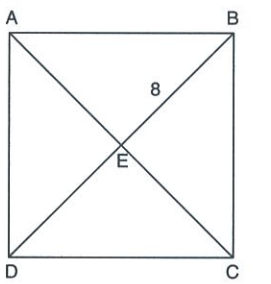
3.



ABCD kare
ABCD square
⇒ x = ?

$2\sqrt{3}-2$

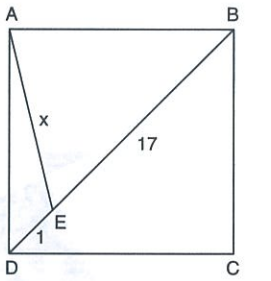
1.



ABCD kare
ABCD square
⇒ Ç(ABCD) = ?
⇒ A(ABCD) = ?

$32\sqrt{2}$, 128

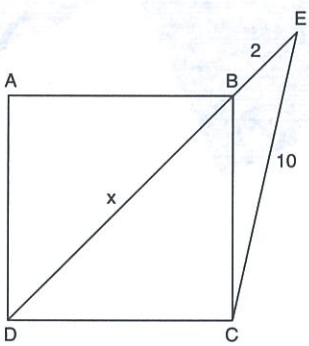
2.



ABCD kare
ABCD square
⇒ x = ?

$\sqrt{145}$

3.



ABCD kare
ABCD square
⇒ x = ?

12

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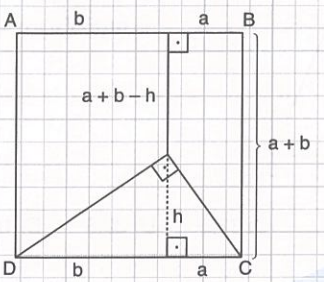
PUZA YAYINLARI
PUZA YAYINLARI

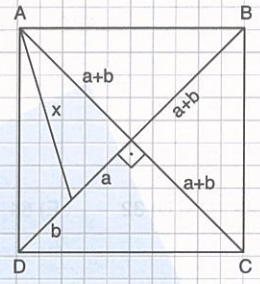
ÖZELLİK|Property 3



ABCD kare
ABCD square

$h^2 = a \cdot b$

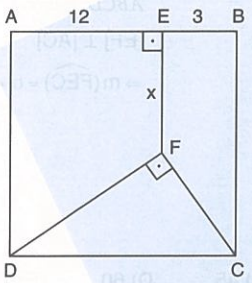
ÖZELLİK|Property 4



ABCD kare
ABCD square

$x^2 = a^2 + (a + b)^2$

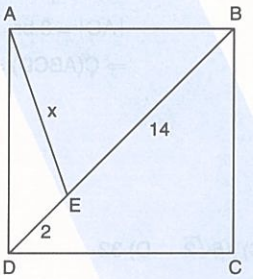
1.



ABCD kare
ABCD square
⇒ x = ?

9

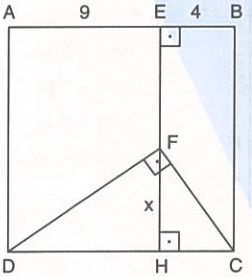
1.



ABCD kare
ABCD square
⇒ x = ?

10

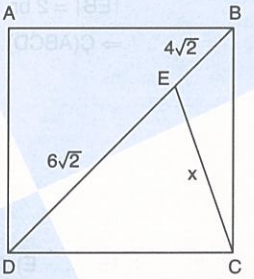
2.



ABCD kare
ABCD square
⇒ x = ?

6

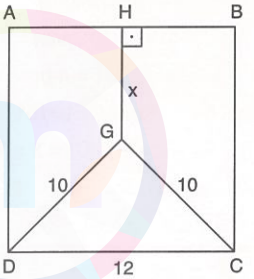
2.



ABCD kare
ABCD square
⇒ x = ?

$2\sqrt{13}$

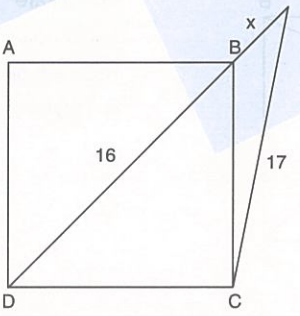
3.



ABCD kare
ABCD square
⇒ x = ?

4

3.

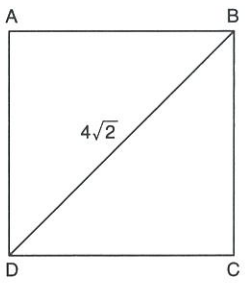


ABCD kare
ABCD square
⇒ x = ?

7

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

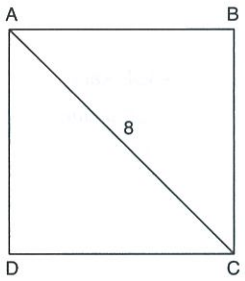
1.



ABCD kare
ABCD square
$|BD| = 4\sqrt{2}$ br
$\Rightarrow A(ABCD) = ?$

A) 4 B) 16 C) 25 D) 32 E) 64

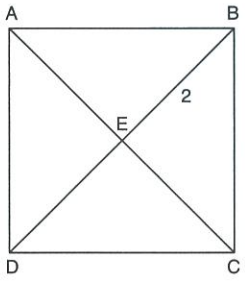
2.



ABCD kare
ABCD square
$|AC| = 8$ br
$\Rightarrow Ç(ABCD) = ?$

A) $8\sqrt{2}$ B) 16 C) $16\sqrt{2}$ D) 32 E) $32\sqrt{2}$

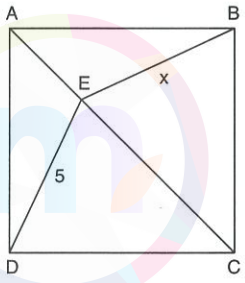
3.



ABCD kare
ABCD square
$|EB| = 2$ br
$\Rightarrow Ç(ABCD) = ?$

A) $4\sqrt{2}$ B) 8 C) $8\sqrt{2}$ D) 16 E) $16\sqrt{2}$

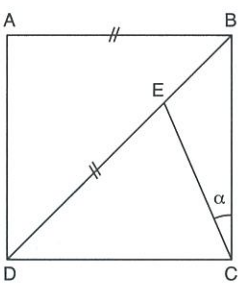
4.



ABCD kare
ABCD square
$|ED| = 5$ br
$\Rightarrow |EB| = x = ?$

A) $\frac{5}{2}$ B) 5 C) $5\sqrt{2}$ D) $5\sqrt{3}$ E) 10

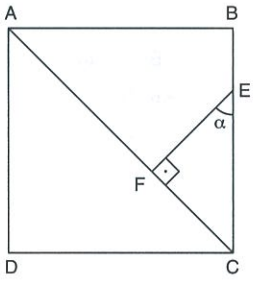
5.



ABCD kare
ABCD square
$|AB| = |ED|$
$\Rightarrow m(\widehat{ECB}) = \alpha = ?$

A) 42,5 B) 30 C) 32,5 D) 22,5 E) 12,5

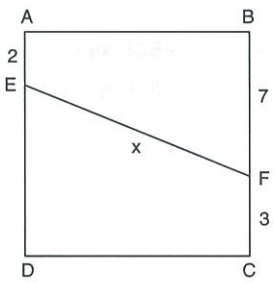
6.



ABCD kare
ABCD square
$[EF] \perp [AC]$
$\Rightarrow m(\widehat{FEC}) = \alpha = ?$

A) 15 B) 30 C) 45 D) 60 E) 75

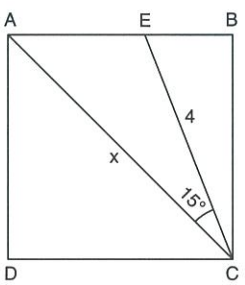
7.



ABCD kare
ABCD square
$|AE| = 2$ br
$|BF| = 7$ br
$|FC| = 3$ br
$\Rightarrow |EF| = x = ?$

A) 5 B) 6 C) 10 D) $5\sqrt{5}$ E) $10\sqrt{5}$

8.

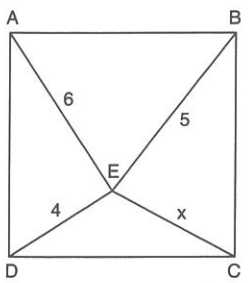


ABCD kare
ABCD square
$|EC| = 4$ br
$m(\widehat{ACE}) = 15°$
$\Rightarrow |AC| = x = ?$

A) $2\sqrt{3}$ B) $4\sqrt{3}$ C) 8 D) $2\sqrt{6}$ E) $4\sqrt{6}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

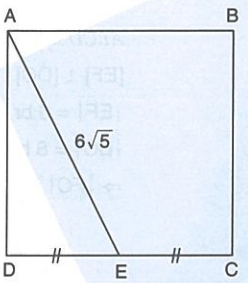
9.



ABCD kare
ABCD square
$|AE| = 6$ br
$|BE| = 5$ br
$|DE| = 4$ br
$\Rightarrow |EC| = x = ?$

A) $\sqrt{3}$ B) $\sqrt{5}$ C) 3 D) 5 E) $\frac{24}{5}$

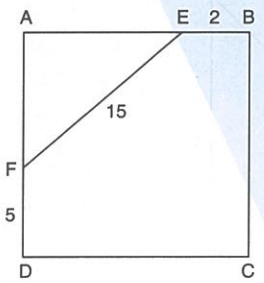
10.



ABCD kare
ABCD square
$|DE| = |EC|$
$|AE| = 6\sqrt{5}$ br
$\Rightarrow A(ABCD) = ?$

A) 36 B) 64 C) 100 D) 121 E) 144

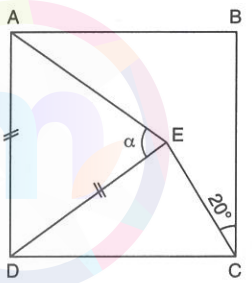
11.



ABCD kare
ABCD square
$|EB| = 2$ br
$|FE| = 15$ br
$|FD| = 5$ br
$\Rightarrow Ç(ABCD) = ?$

A) 40 B) 44 C) 48 D) 56 E) 60

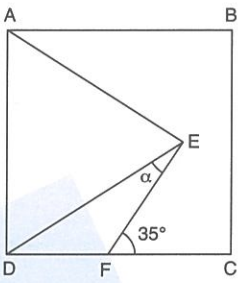
12.



ABCD kare
ABCD square
$|AD| = |DE|$
$m(\widehat{ECB}) = 20°$
$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 40 B) 50 C) 65 D) 70 E) 135

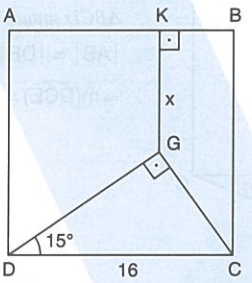
13.



ABCD kare
ABCD square
AED eşkenar üçgen
AED equilateral triangle
$m(\widehat{EFC}) = 35°$
$\Rightarrow m(\widehat{DEF}) = \alpha = ?$

A) 5 B) 10 C) 12 D) 15 E) 20

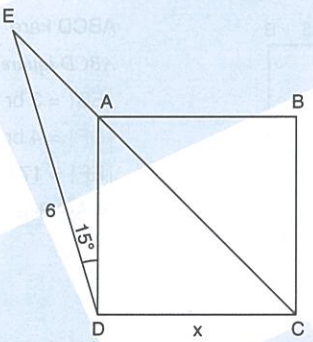
14.



ABCD kare
ABCD square
$[DG] \perp [GC]$
$[GK] \perp [AB]$
$m(\widehat{GDC}) = 15°$
$\Rightarrow |KG| = x = ?$

A) 14 B) 12 C) 8 D) 6 E) 4

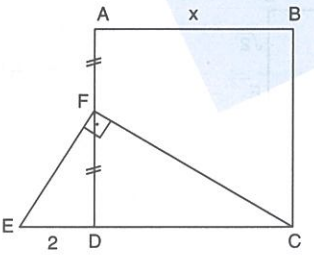
15.



ABCD kare
ABCD square
$|ED| = 6$ br
$m(\widehat{ADE}) = 15°$
$\Rightarrow |DC| = x = ?$

A) 3 B) $3\sqrt{2}$ C) $3\sqrt{3}$ D) $3\sqrt{6}$ E) 6

16.



ABCD kare
ABCD square
$|AF| = |FD|$
$[EF] \perp [FC]$
$|ED| = 2$ br
$\Rightarrow |AB| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 16

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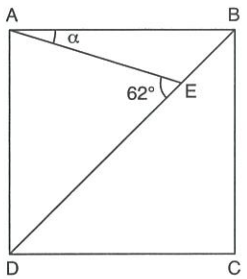
PUZA YAYINLARI
PUZA YAYINLARI

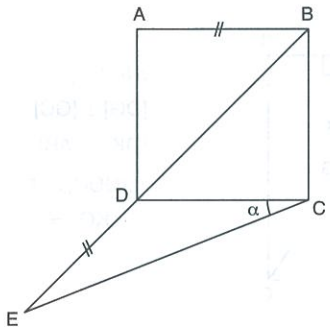
1.



ABCD kare
ABCD square
$m(\widehat{AED}) = 62°$
$\Rightarrow m(\widehat{EAB}) = \alpha = ?$

A) 12 B) 15 C) 17 D) 22 E) 27

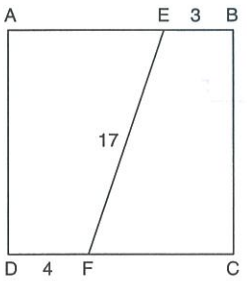
2.



ABCD kare
ABCD square
$|AB| = |DE|$
$\Rightarrow m(\widehat{DCE}) = \alpha = ?$

A) 12,5 B) 15 C) 20 D) 22,5 E) 25

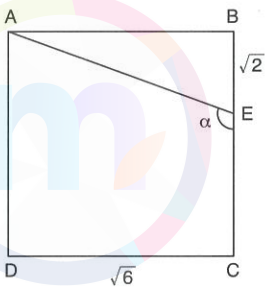
3.



ABCD kare
ABCD square
$|EB| = 3$ br
$|DF| = 4$ br
$|EF| = 17$ br
$\Rightarrow A(ABCD) = ?$

A) 100 B) 121 C) 144 D) 169 E) 225

4.



ABCD kare
ABCD square
$|EB| = \sqrt{2}$ br
$|DC| = \sqrt{6}$ br
$\Rightarrow m(\widehat{AEC}) = \alpha = ?$

A) 150 B) 135 C) 120 D) 90 E) 75

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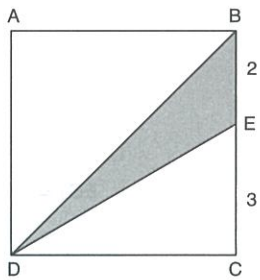
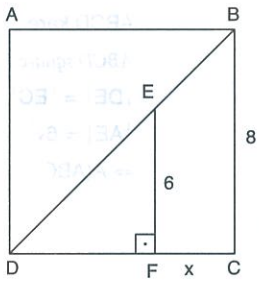
5.



ABCD kare
ABCD square
$|BE| = 2$ br
$|EC| = 3$ br
$\Rightarrow A(BDE) = ?$

A) 5 B) 6 C) 10 D) 12 E) 15

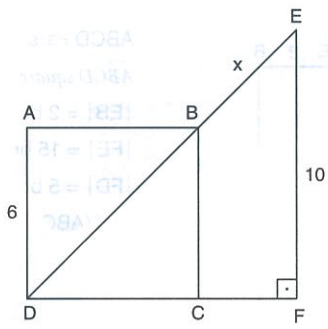
6.



ABCD kare
ABCD square
$[EF] \perp [DC]$
$|EF| = 6$ br
$|BC| = 8$ br
$\Rightarrow |FC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

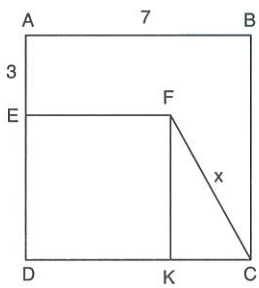
7.



ABCD kare
ABCD square
$[EF] \perp [DF]$
$|EF| = 10$ br
$|AD| = 6$ br
$\Rightarrow |BE| = x = ?$

A) 2 B) $2\sqrt{2}$ C) 4 D) $4\sqrt{2}$ E) 6

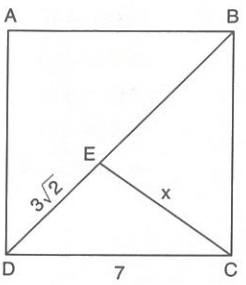
8.



ABCD, EFKD kare
ABCD, EFKD square
$|AB| = 7$ br
$|AE| = 3$ br
$\Rightarrow |FC| = x = ?$

A) $10\sqrt{2}$ B) 10 C) $4\sqrt{2}$ D) 5 E) 4

9.



ABCD kare

ABCD square

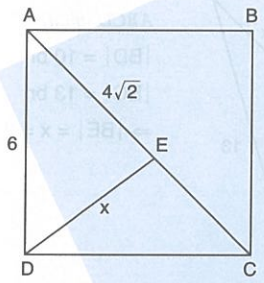
$|DC| = 7$ br

$|DE| = 3\sqrt{2}$ br

$\Rightarrow |EC| = x = ?$

A) 7 B) 6 C) 5 D) 4 E) 3

10.



ABCD kare

ABCD square

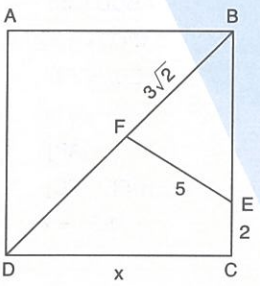
$|AE| = 4\sqrt{2}$ br

$|AD| = 6$ br

$\Rightarrow |ED| = x = ?$

A) $2\sqrt{2}$ B) 5 C) 6 D) $2\sqrt{5}$ E) $2\sqrt{7}$

11.



ABCD kare

ABCD square

$|BF| = 3\sqrt{2}$ br

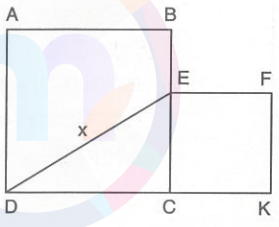
$|FE| = 5$ br

$|EC| = 2$ br

$\Rightarrow |DC| = x = ?$

A) 9 B) 8 C) 7 D) 6 E) 5

12.



ABCD, EFKC kare

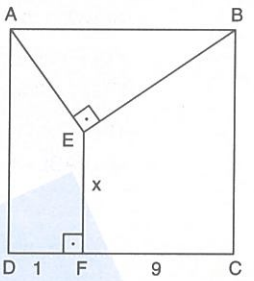
ABCD, EFKC square

$A(ABCD) + A(EFCK) = 72$ br^2

$\Rightarrow |DE| = x = ?$

A) 4 B) 6 C) $4\sqrt{2}$ D) $6\sqrt{2}$ E) 12

13.



ABCD kare

ABCD square

$[AE] \perp [EB]$

$[EF] \perp [DC]$

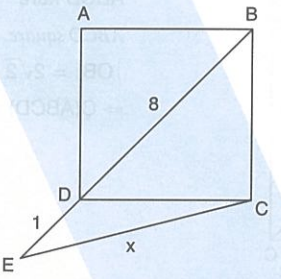
$|DF| = 1$ br

$|FC| = 9$ br

$\Rightarrow |EF| = x = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

14.



ABCD kare

ABCD square

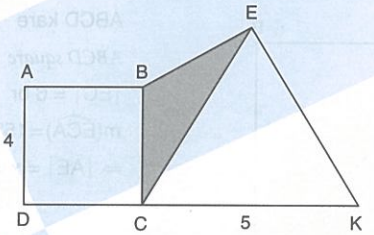
$|BD| = 8$ br

$|DE| = 1$ br

$\Rightarrow |EC| = x = ?$

A) 3 B) 5 C) $4\sqrt{2}$ D) $\sqrt{41}$ E) 7

15.



ABCD kare

ABCD square

ECK eşkenar üçgen

ECK equilateral triangle

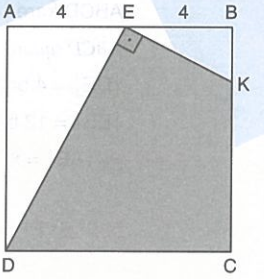
$|AD| = 4$ br

$|CK| = 5$ br

$\Rightarrow A(BEC) = ?$

A) $\frac{5}{2}$ B) 5 C) $5\sqrt{3}$ D) 10 E) $10\sqrt{3}$

16.



ABCD kare

ABCD square

$|AE| = |EB| = 4$ br

$\Rightarrow A(EKCD) = ?$

A) 16 B) 24 C) 32 D) 44 E) 48

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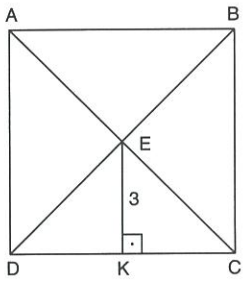
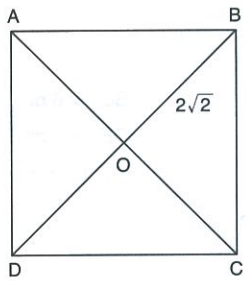
1.



ABCD kare
ABCD square
[EK] ⊥ [DC]
|EK| = 3 br
⇒ A(ABCD) = ?

A) 9 B) 16 C) 25 D) 36 E) 64

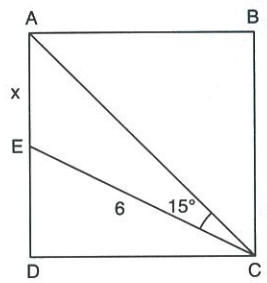
2.



ABCD kare
ABCD square
|OB| = 2√2 br
⇒ Ç(ABCD) = ?

A) 8 B) 8√2 C) 16 D) 16√2 E) 32

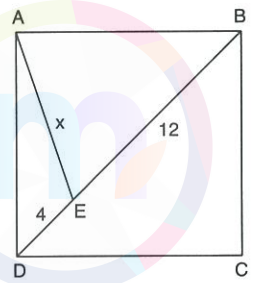
3.



ABCD kare
ABCD square
|EC| = 6 br
m(ÊCA) = 15°
⇒ |AE| = x = ?

A) 3√3 B) 6√3 C) 3√3 − 3
D) 3√3 + 3 E) 6√3 + 3

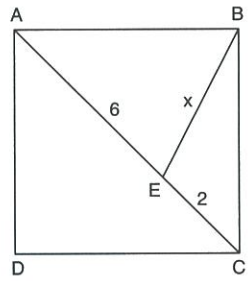
4.



ABCD kare
ABCD square
|DE| = 4 br
|EB| = 12 br
⇒ |AE| = x = ?

A) 4 B) 2√5 C) 5 D) 4√5 E) 8

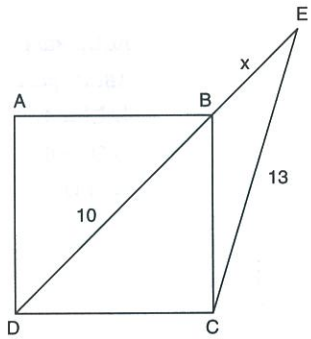
5.



ABCD kare
ABCD square
|AE| = 6 br
|EC| = 2 br
⇒ |BE| = x = ?

A) 2 B) 2√5 C) 4√2 D) 4√3 E) 4√5

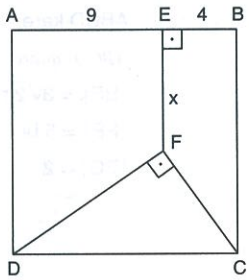
6.



ABCD kare
ABCD square
|BD| = 10 br
|EC| = 13 br
⇒ |BE| = x = ?

A) 5 B) 7 C) 9 D) 12 E) 13

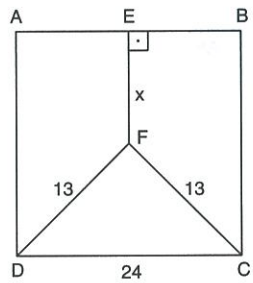
7.



ABCD kare
ABCD square
|EB| = 4 br
|AE| = 9 br
[EF] ⊥ [AB]
[DF] ⊥ [FC]
⇒ |EF| = x = ?

A) 5 B) 6 C) 7 D) 8 E) 9

8.



ABCD kare
ABCD square
[FE] ⊥ [AB]
|DF| = |FC| = 13 br
|DC| = 24 br
⇒ |EF| = x = ?

A) 19 B) 17 C) 16 D) 15 E) 12

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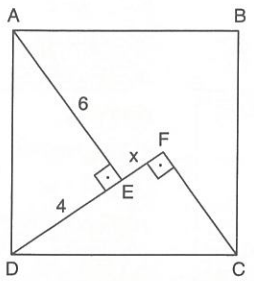
PUZA YAYINLARI
PUZA YAYINLARI

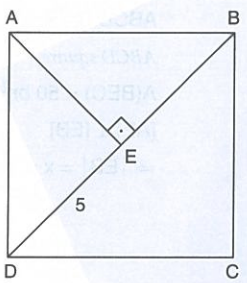
9.



ABCD kare
ABCD square
[AE] ⊥ [DF]
[DF] ⊥ [FC]
|AE| = 6 br
|DE| = 4 br
⇒ |EF| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

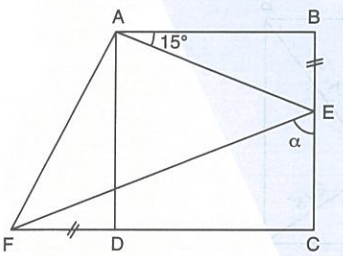
10.



ABCD kare
ABCD square
[AE] ⊥ [BD]
|DE| = 5 br
⇒ A(ABCD) = ?

A) 100 B) 75 C) 50 D) 25 E) 20

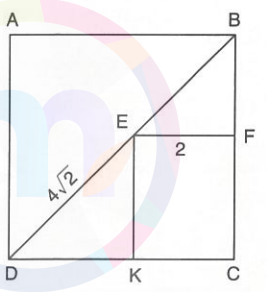
11.



ABCD kare
ABCD square
|BE| = |FD|
m(BAE) = 15°
⇒ m(FEC) = α = ?

A) 15 B) 30 C) 45 D) 60 E) 75

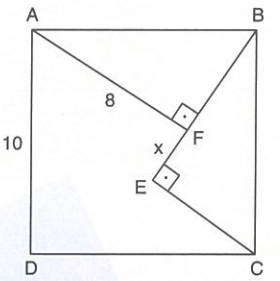
12.



ABCD kare
ABCD square
EFCK dikdörtgen
EFCK rectangle
|EF| = 2 br
|DE| = 4√2 br
⇒ A(ABCD) = ?

A) 25 B) 36 C) 49 D) 64 E) 81

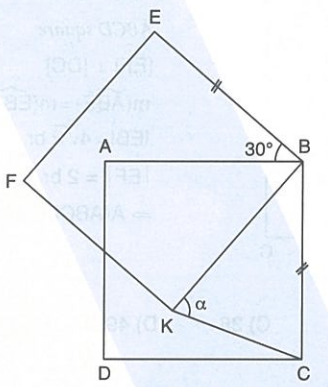
13.



ABCD kare
ABCD square
[AF] ⊥ [EB]
[CE] ⊥ [EB]
|AF| = 8 br
|AD| = 10 br
⇒ |EF| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

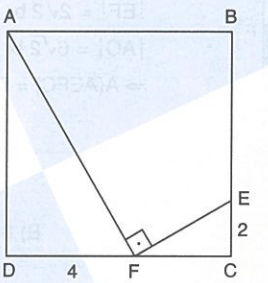
14.



ABCD, EBKF kare
ABCD, EBKF square
|EB| = |BC|
m(EBA) = 30°
⇒ m(BKC) = α = ?

A) 75 B) 60 C) 50 D) 45 E) 30

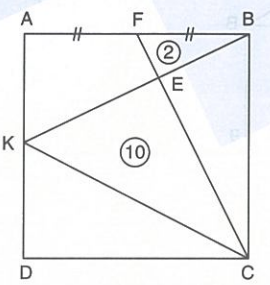
15.



ABCD kare
ABCD square
[AF] ⊥ [FE]
|EC| = 2 br
|DF| = 4 br
⇒ A(ABCD) = ?

A) 16 B) 25 C) 36 D) 49 E) 64

16.



ABCD kare
ABCD square
|BF| = |FA|
A(EFB) = 2 br²
A(EKC) = 10 br²
⇒ A(ABCD) = ?

A) 64 B) 54 C) 48 D) 36 E) 32

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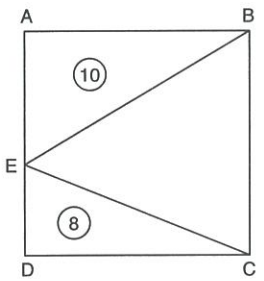
PUZA YAYINLARI
PUZA YAYINLARI

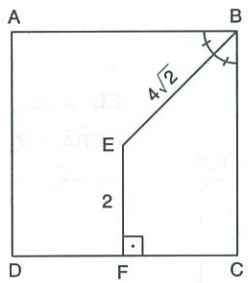
1.



ABCD kare
ABCD square
A(ABE) = 10 br²
A(EDC) = 8 br²
⇒ Ç(ABCD) = ?

A) 16 B) 20 C) 24 D) 28 E) 32

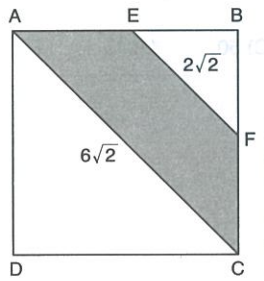
2.



ABCD kare
ABCD square
[EF] ⊥ [DC]
m(ÂBE) = m(ÊBC)
|EB| = 4√2 br
|EF| = 2 br
⇒ A(ABCD) = ?

A) 16 B) 25 C) 36 D) 49 E) 64

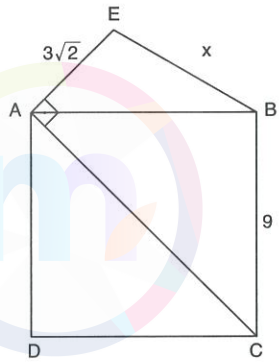
3.



ABCD kare
ABCD square
[EF] // [AC]
|EF| = 2√2 br
|AC| = 6√2 br
⇒ A(AEFC) = ?

A) 24 B) 16 C) 14 D) 12 E) 8

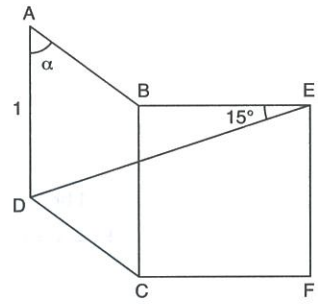
4.



ABCD kare
ABCD square
[EA] ⊥ [AC]
|EA| = 3√2 br
|BC| = 9 br
⇒ |EB| = x = ?

A) 3 B) 3√2 C) 3√5 D) 5√2 E) 6√5

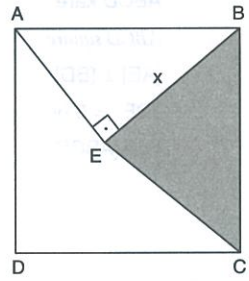
5.



BEFC kare
BEFC square
ABCD eşkenar dörtgen
ABCD rhombus
|AD| = 1 br
|DE| = √2 br
m(BÊD) = 15°
⇒ m(DÂB) = α = ?

A) 15 B) 30 C) 45 D) 60 E) 75

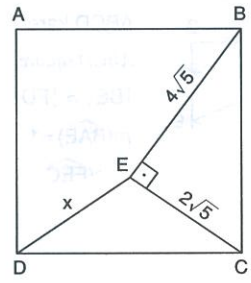
6.



ABCD kare
ABCD square
A(BEC) = 50 br²
[AE] ⊥ [EB]
⇒ |EB| = x = ?

A) 10 B) 8 C) 6 D) 4 E) 3

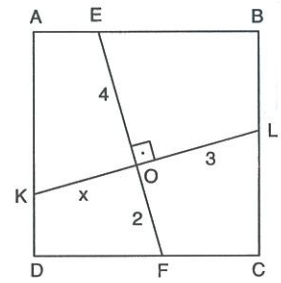
7.



ABCD kare
ABCD square
[BE] ⊥ [EC]
|BE| = 4√5 br
|EC| = 2√5 br
⇒ |ED| = x = ?

A) 2√10 B) 6 C) √35 D) 2√5 E) 4

8.



ABCD kare
ABCD square
[EF] ⊥ [KL]
|EO| = 4 br
|OF| = 2 br
|OL| = 3 br
⇒ |KO| = x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

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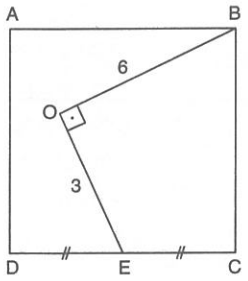
PUZA YAYINLARI
PUZA YAYINLARI

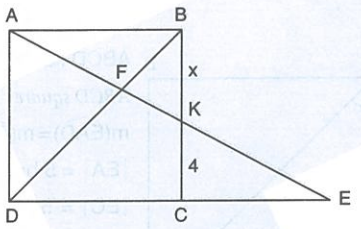
9.



ABCD kare
ABCD square
[BO] ⊥ [OE]
|BO| = 6 br
|OE| = 3 br
|DE| = |EC|
⇒ A(ABCD) = ?

A) 100 B) 81 C) 64 D) 49 E) 36

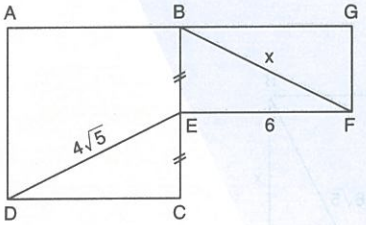
10.



ABCD kare
ABCD square
|BD| = |CE|
|KC| = 4 br
⇒ |BK| = x = ?

A) $\sqrt{2}$ B) 2 C) $2\sqrt{2}$ D) 4 E) $4\sqrt{2}$

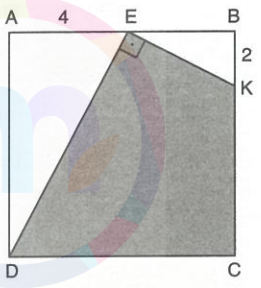
11.



ABCD kare
ABCD square
BGFE dikdörtgen
BGFE rectangle
|DE| = $4\sqrt{5}$ br
|EF| = 6 br
|BE| = |EC|
⇒ |BF| = x = ?

A) $2\sqrt{13}$ B) 7 C) $4\sqrt{3}$ D) 4 E) 5

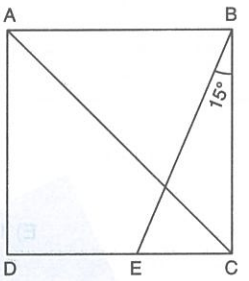
12.



ABCD kare
ABCD square
[DE] ⊥ [EK]
|BK| = 2 br
|AE| = 4 br
⇒ A(DEKC) = ?

A) 64 B) 48 C) 44 D) 32 E) 24

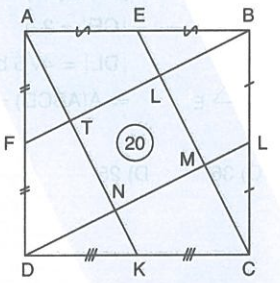
13.



ABCD kare
ABCD square
m(EBC) = 15°
|BE| = 8 br
⇒ |AC| = ?

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) 8 E) $4+4\sqrt{3}$

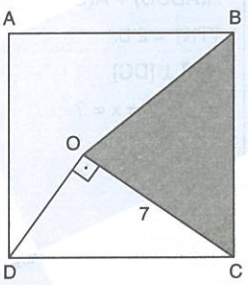
14.



ABCD kare
ABCD is square
E, F, K, L bulundukları kenarların orta noktaları
E, F, K, L are the midpoints of sides
A(LMNT) = 20 br²
⇒ A(ABCD) = ?

A) 100 B) 80 C) 75 D) 70 E) 60

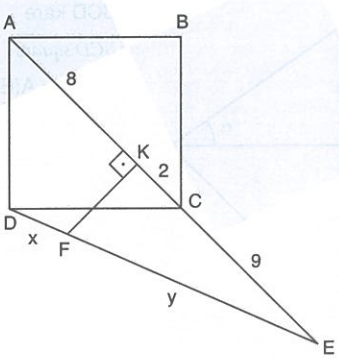
15.



ABCD kare
ABCD square
[DO] ⊥ [OC]
|OC| = 7 br
⇒ A(BOC) = ?

A) 7 B) 14 C) $\frac{49}{2}$ D) 49 E) 98

16.



ABCD kare
ABCD square
[FK] ⊥ [AE]
|AK| = 8 br
|KC| = 2 br
|CE| = 9 br
|DF| = x
|FE| = y
⇒ $\frac{x}{y}$ = ?

A) $\frac{8}{11}$ B) $\frac{5}{11}$ C) $\frac{3}{11}$ D) $\frac{2}{9}$ E) $\frac{1}{9}$

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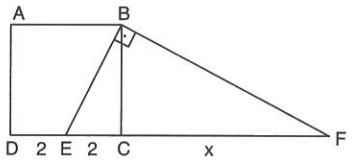
PUZA YAYINLARI
PUZA YAYINLARI

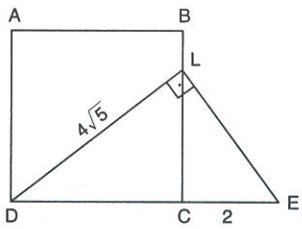
1.



ABCD kare
ABCD square
[EB] ⊥ [BF]
|DE| = |EC| = 2 br
⇒ |CF| = x = ?

A) 8 B) 6 C) 4 D) 2 E) 1

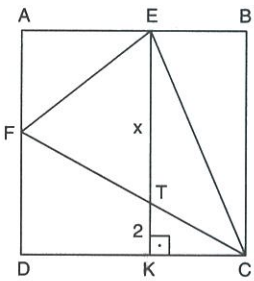
2.



ABCD kare
ABCD square
[DL] ⊥ [LE]
|CE| = 2 br
|DL| = $4\sqrt{5}$ br
⇒ A(ABCD) = ?

A) 64 B) 49 C) 36 D) 25 E) 16

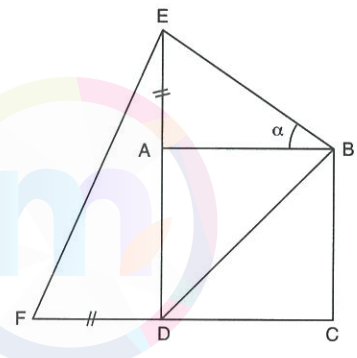
3.



ABCD kare
ABCD square
A(ABCD) + A(EFC) = 88 br^2
|TK| = 2 br
[EK] ⊥ [DC]
⇒ |ET| = x = ?

A) 4 B) 5 C) 6 D) 7 E) 8

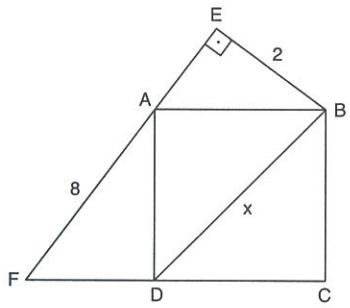
4.



ABCD kare
ABCD square
A(EDF) = A(EDB)
|EA| = |FD|
⇒ m(ÊBA) = α = ?

A) 75 B) 60 C) 45 D) 30 E) 15

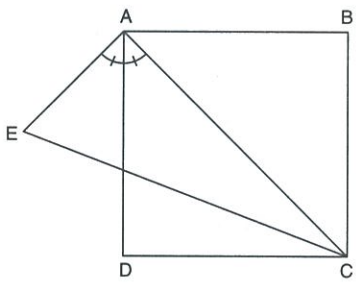
5.



ABCD kare
ABCD square
[EB] ⊥ [FE]
|EB| = 2 br
|AF| = 8 br
⇒ |BD| = x = ?

A) 2 B) $2\sqrt{4}$ C) 4 D) $4\sqrt{2}$ E) 8

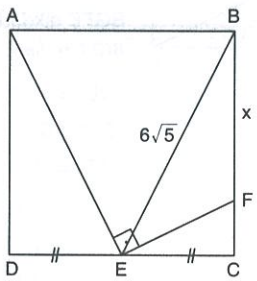
6.



ABCD kare
ABCD square
m(ÊAD) = m(D̂AC)
|EA| = 5 br
|EC| = $5\sqrt{3}$ br
⇒ Ç(ABCD) = ?

A) 12 B) 16 C) 20 D) 24 E) 28

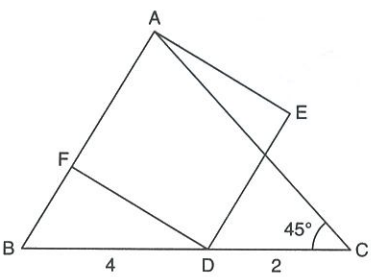
7.



ABCD kare
ABCD square
[AE] ⊥ [EF]
|DE| = |EC|
|BE| = $6\sqrt{5}$ br
⇒ |BF| = x = ?

A) 4 B) 5 C) $6\sqrt{2}$ D) $6\sqrt{5}$ E) 9

8.



AEDF kare
ABCD square
|BD| = 4 br
|DC| = 2 br
m(ÂCB) = 45°
⇒ |AB| = ?

A) 2 B) $\frac{2\sqrt{6}}{3}$ C) $\sqrt{5}$ D) $\sqrt{6}$ E) $2\sqrt{6}$

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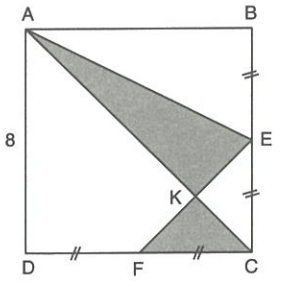
PUZA YAYINLARI
PUZA YAYINLARI

9.



ABCD kare

ABCD square

$|AD| = 8$ br

$|BE| = |EC|$

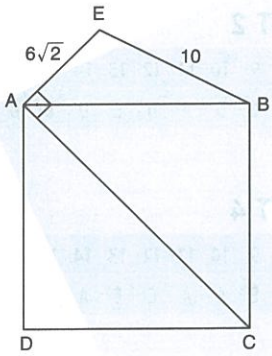
$|DF| = |FC|$

⇒ Taralı Alan = ?

Shaded area = ?

A) 8 B) 12 C) 16 D) 20 E) 24

10.



ABCD kare

ABCD square

$[EA] \perp [AC]$

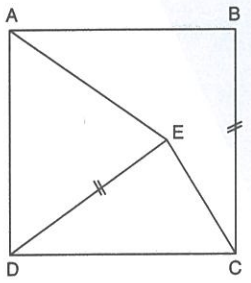
$|AE| = 6\sqrt{2}$ br

$|EB| = 10$ br

⇒ Ç(ABCD) = ?

A) 32 B) 40 C) 48 D) 56 E) 60

11.



ABCD kare

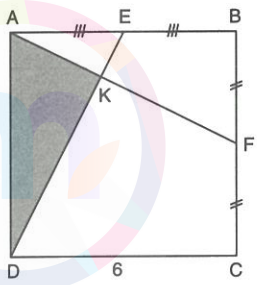
ABCD square

$|DE| = |BC|$

$\Rightarrow m(\widehat{AEC}) = ?$

A) 135 B) 125 C) 120 D) 115 E) 110

12.



ABCD kare

ABCD square

$|AE| = |EB|$

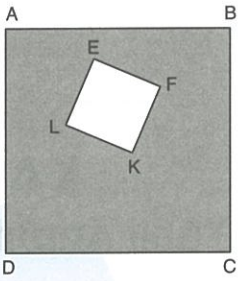
$|BF| = |FC|$

$|DC| = 6$ br

⇒ A(AKD) = ?

A) $\frac{15}{2}$ B) $\frac{36}{5}$ C) 9 D) 12 E) $\frac{40}{3}$

13.



ABCD ve EFKL kare

ABCD and EFKL square

Karelerin çevreleri toplamı 24 br

The sum of the circumferences of the squares is 24 units

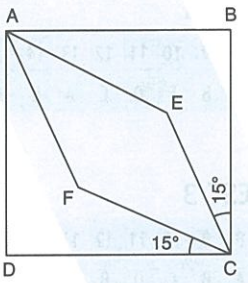
Taralı alan 12 br^2

Shaded area = 12 br^2

⇒ Ç(ABCD) = ?

A) 16 B) 20 C) 24 D) 28 E) 32

14.



ABCD kare

ABCD square

AECF eşkenar dörtgen

AECF rhombus

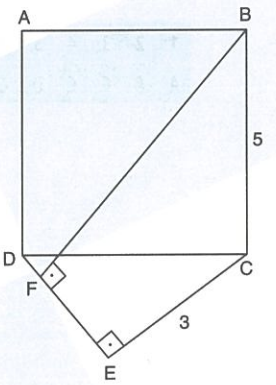
Ç(AECF) = 24 br

$m(\widehat{ECB}) = m(\widehat{DCF}) = 15°$

⇒ Ç(ABCD) = ?

A) $12\sqrt{3}$ B) $14\sqrt{3}$ C) $16\sqrt{3}$ D) $12\sqrt{6}$ E) $12\sqrt{2}$

15.



ABCD kare

ABCD square

$|BC| = 5$ br

$|EC| = 3$ br

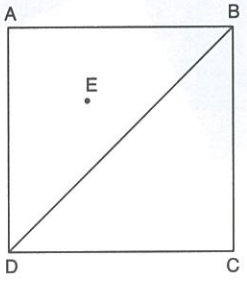
$[BF] \perp [DE]$

$[EC] \perp [DE]$

⇒ $|BF|$ = ?

A) 8 B) 7 C) 6 D) 4 E) 2

16.



ABCD kare

ABCD square

A(ABCD) = 32 br^2

E, ABD üçgeninin içinde bir nokta

E is a point inside the ABD triangle

⇒ [CE] nin alabileceği en küçük tamsayı değeri kaçtır?

⇒ *What is the minimum integer value that [CE] can be?*

A) 3 B) 4 C) 5 D) 6 E) 7

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

KARE SQUARE
Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	C	B	D	C	D	D	B	E	D	C	A	B	B	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	D	E	C	A	B	D	D	C	D	A	D	E	D	B	D

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	C	D	B	B	C	A	B	C	D	B	B	A	E	E

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	B	C	B	A	A	C	E	C	A	C	E	A	C	C

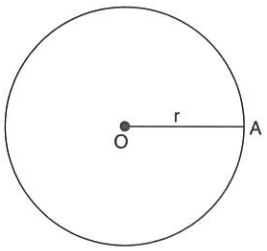
TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	A	C	C	D	C	E	E	C	D	A	B	A	D	B	C

ÇEMBERDE AÇI
ANGLE IN CIRCLE

TANIMLAR | Defination

1.



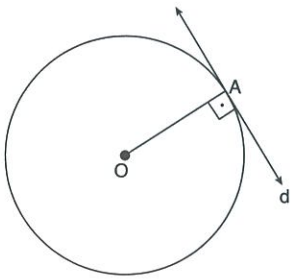
O, çemberin merkezi

O, is the center of the circle

r, çemberin yarıçapıdır.

r is the radius of the circle

2.

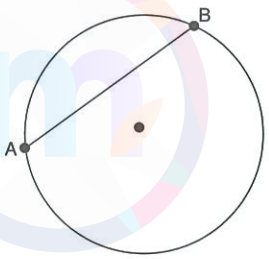


TEĞET *(Tangent)*:

Çemberin yalnız bir noktada kesen doğruya denir.

The tangent line touches a circle at exactly one point and is perpendicular to the radius of the circle at the point of contact.

3.



KİRİŞ *(Chord)*:

Çemberin farklı iki noktasını birleştiren doğru parçasına denir.

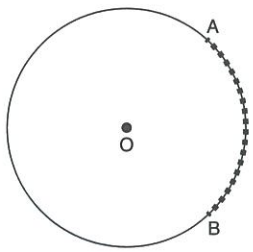
A line segment that connects two points on a circle.

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

4.

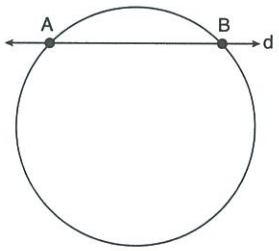


YAY *(Arc)*:

A ve B noktaları arasında kalan kısma denir.

An arc is the part of circle's between the points A and B.

5.

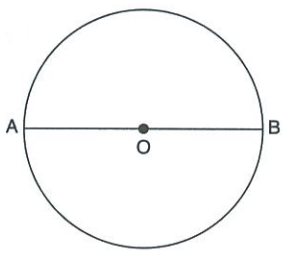


KESEN *(Intersect)*:

Çemberi farklı iki noktadan kesen doğrulara denir.

A line intersects on two district points of the circle.

6.

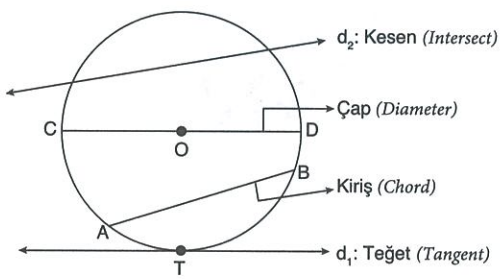


ÇAP *(Diameter)*:

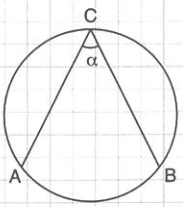
O merkezinden geçen [AB] kirişine çemberin çapı deinr.

A chord that pasors through the center of a circle.

7.

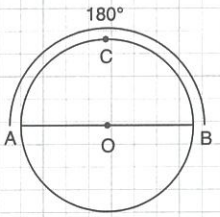


ÖZELLİK | Property 1



$m(\widehat{ACB}) = \alpha$

$m(\widehat{AB}) = 2\alpha$

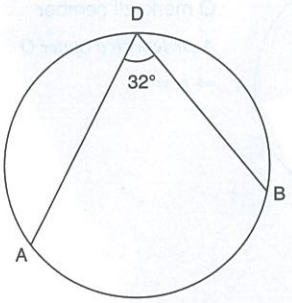


O merkez

O center

$m(\widehat{ACB}) = 180°$

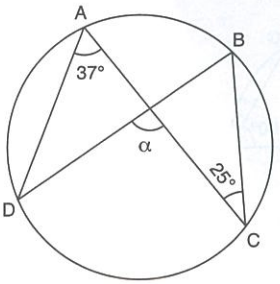
1.



$\Rightarrow m(\widehat{AB}) = ?$

64

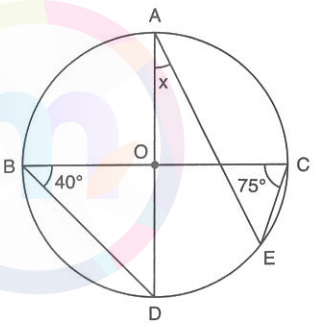
2.



$\Rightarrow \alpha = ?$

62

3.



O merkezli çember

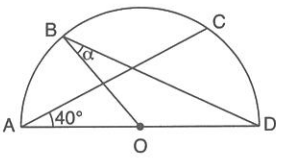
A Circle with a center O

$\Rightarrow x = ?$

25

PUZA YAYINLARI

4.



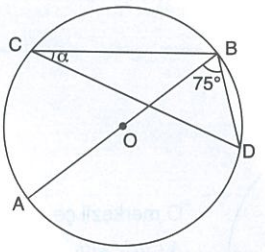
[AD] çap *(diameter)*

$m(\widehat{BC}) = 20°$

$\Rightarrow \alpha = ?$

40

5.

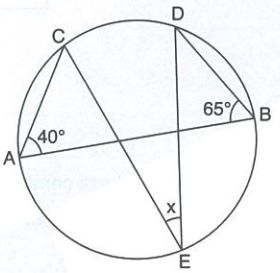


[AB] çap *(diameter)*

$\Rightarrow \alpha = ?$

15

6.

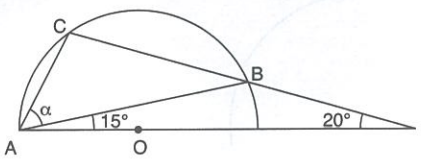


[AB] çap *(diameter)*

$\Rightarrow x = ?$

15

7.

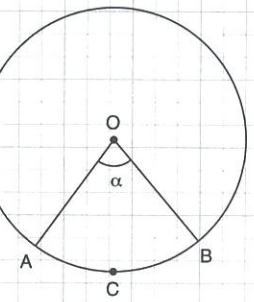


O merkezli yarım çember *(A semi circle with a center O)*

$\Rightarrow \alpha = ?$

40

ÖZELLİK|Property 2



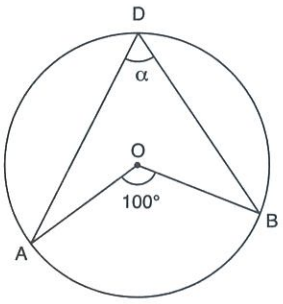
O merkezli çember

A Circle with a center O

$m(\widehat{AOB}) = \alpha$

$m(\widehat{ACB}) = \alpha$

1.



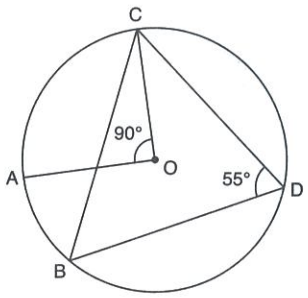
O merkezli çember

A Circle with a center O

$\Rightarrow \alpha = ?$

50

2.



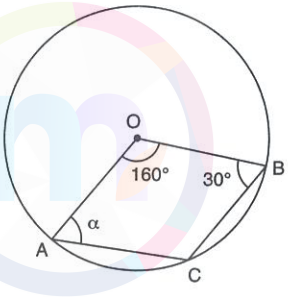
O merkezli çember

A Circle with a center O

$\Rightarrow m(\widehat{AB}) = ?$

20

3.



O merkezli çember

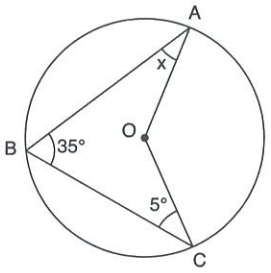
A Circle with a center O

$\Rightarrow \alpha = ?$

70

PUZA YAYINLARI

4.



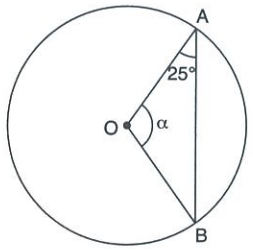
O merkezli çember

A circle with a center O

$\Rightarrow x = ?$

30

5.



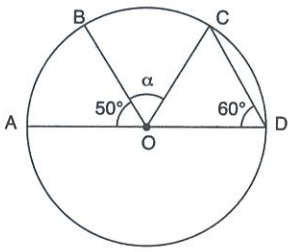
O merkezli çember

A circle with a center O

$\Rightarrow \alpha = ?$

130

6.

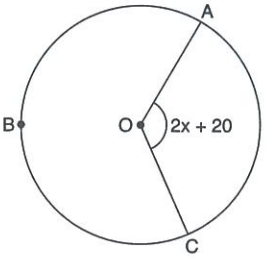


[AD] çap *(diameter)*

$\Rightarrow \alpha = ?$

70

7.



O merkezli çember

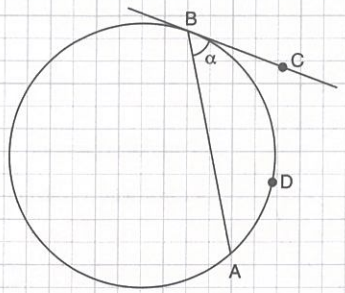
A circle with a center O

$m(\widehat{ABC}) = 240°$

$\Rightarrow x = ?$

50

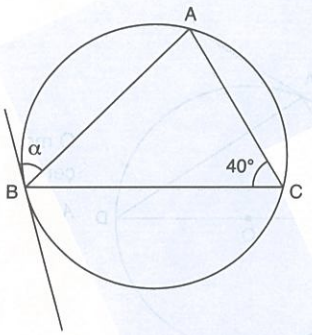
ÖZELLİK|Property 3



$m(\widehat{ABC}) = \alpha$

$\boxed{m(\widehat{ADB}) = 2\alpha}$

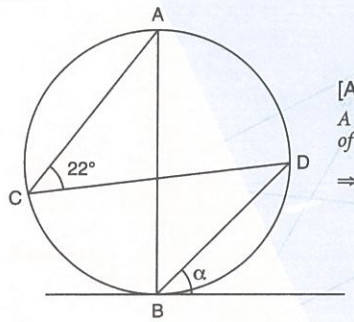
1.



$\Rightarrow \alpha = ?$

40

2.



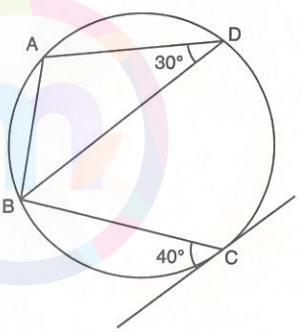
[AB] çaplı çember

A Circle with a diameter of [AB]

$\Rightarrow \alpha = ?$

68

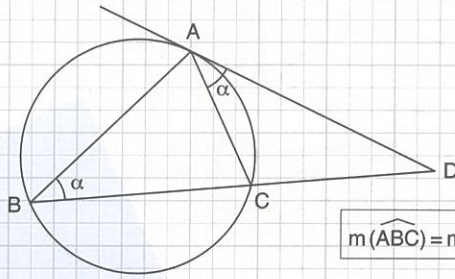
3.



$\Rightarrow m(\widehat{ABC}) = ?$

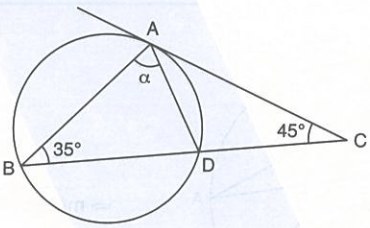
110

ÖZELLİK|Property 4



$\boxed{m(\widehat{ABC}) = m(\widehat{CAD})}$

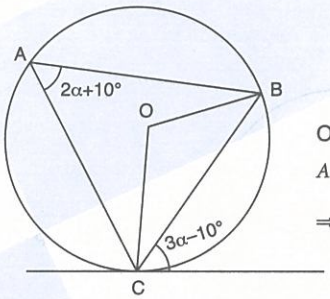
1.



$\Rightarrow \alpha = ?$

65

2.



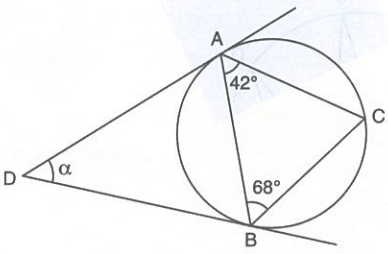
O merkezli çember

A Circle with a center O

$\Rightarrow m(\widehat{COB}) = ?$

100

3.

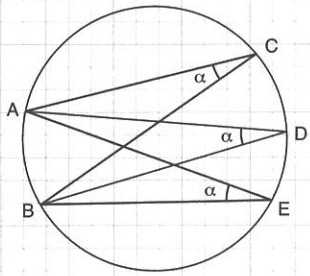


$\Rightarrow \alpha = ?$

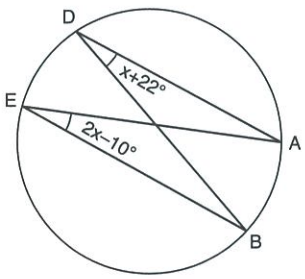
40

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 5



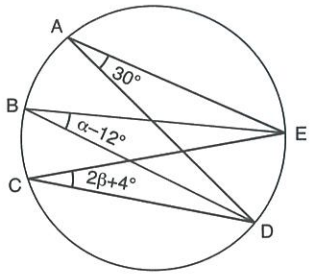
1.



$\Rightarrow m(\widehat{AB}) = ?$

108

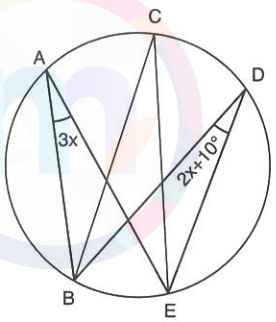
2.



$\Rightarrow \alpha - \beta = ?$

29

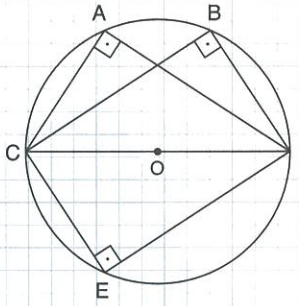
3.



$\Rightarrow m(\widehat{BCE}) = ?$

30

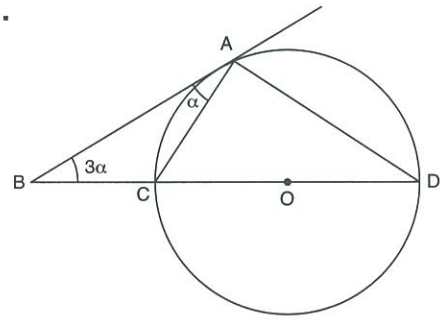
ÖZELLİK|Property 6



O merkezli çember

A Circle with a center O

1.



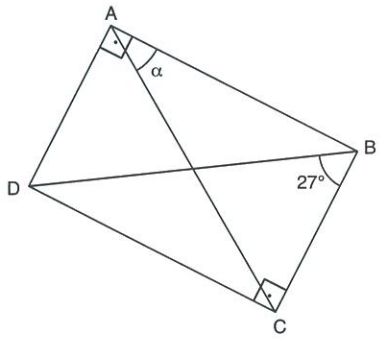
O merkezli çember

A Circle with a center O

$\Rightarrow \alpha = ?$

18

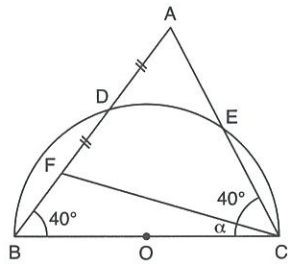
2.



$\Rightarrow \alpha = ?$

63

3.



O merkezli çember

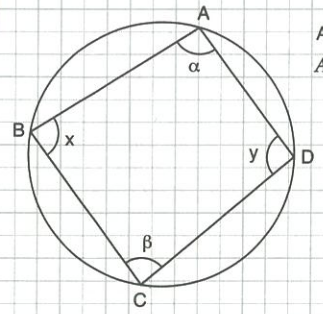
A Circle with a center O

$\Rightarrow \alpha = ?$

30

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 7



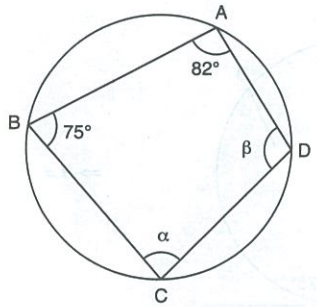
ABCD Kirişler Dörtgeni

ABCD Inscribed quadrilateral

$\alpha + \beta = 180°$

$x + y = 180°$

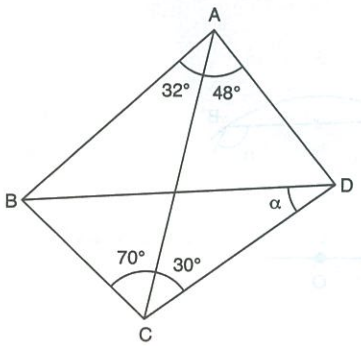
1.



$\Rightarrow \beta - \alpha = ?$

7

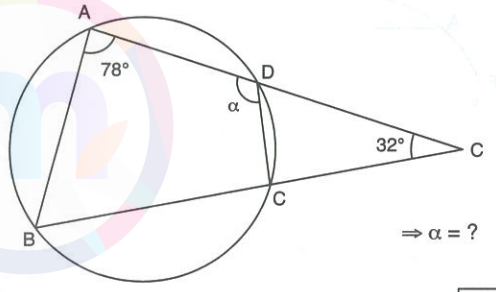
2.



$\Rightarrow \alpha = ?$

32

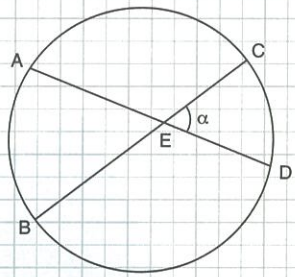
3.



$\Rightarrow \alpha = ?$

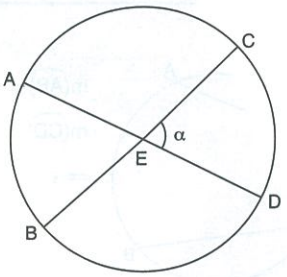
110

ÖZELLİK|Property 8



$$\alpha = \frac{m(\overset{\frown}{AB}) + m(\overset{\frown}{CD})}{2}$$

1.



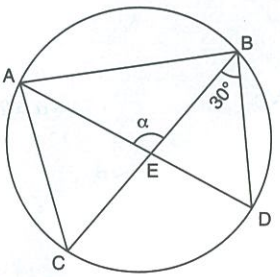
$m(\overset{\frown}{AB}) = 100°$

$m(\overset{\frown}{CD}) = 70°$

$\Rightarrow \alpha = ?$

85

2.



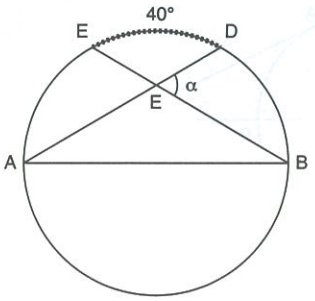
ABC eşkenar üçgen

ABC equilateral triangle

$\Rightarrow \alpha = ?$

90

3.



[AB] çaplı çember

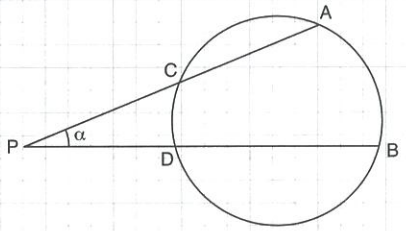
A Circle with a diameter [AB]

$\Rightarrow \alpha = ?$

70

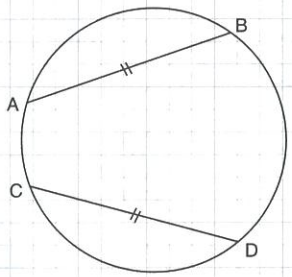
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 9



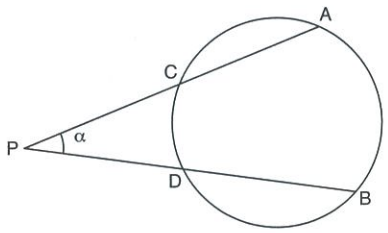
$$\alpha = \frac{m(\overset{\frown}{AB}) - m(\overset{\frown}{CD})}{2}$$

ÖZELLİK|Property 10



$|AB| = |CD| \Rightarrow m(\overset{\frown}{AB}) = m(\overset{\frown}{CD})$

1.



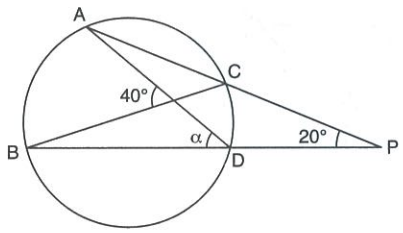
$m(\overset{\frown}{AB}) = 75°$

$m(\overset{\frown}{CD}) = 25°$

$\Rightarrow \alpha = ?$

25

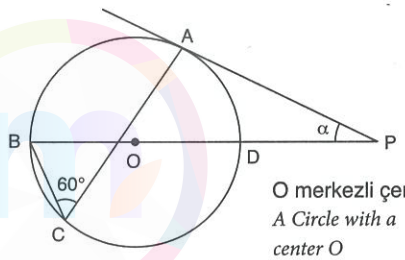
2.



$\Rightarrow \alpha = ?$

30

3.



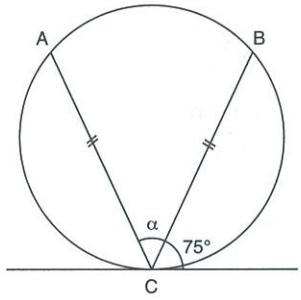
O merkezli çember

A Circle with a center O

$\Rightarrow \alpha = ?$

30

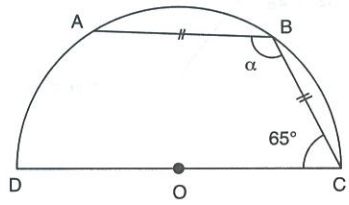
1.



$\Rightarrow \alpha = ?$

30

2.



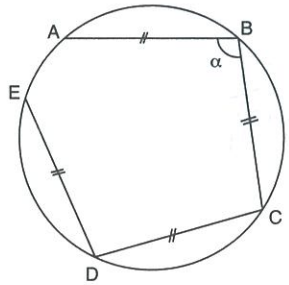
O merkezli çember

A Circle with a center O

$\Rightarrow \alpha = ?$

130

3.



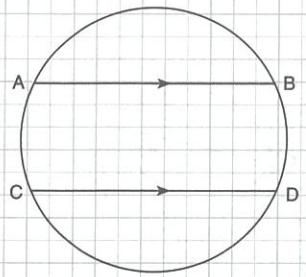
$m(\overset{\frown}{AE}) = 60°$

$\Rightarrow \alpha = ?$

105

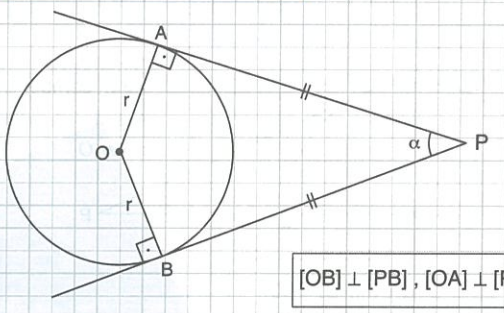
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 11



[AB] // [CD] ⇒ m(AC) = m(BD)

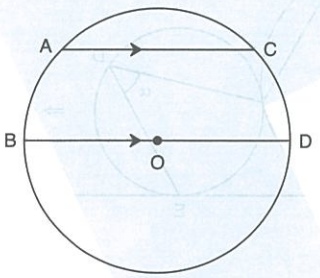
ÖZELLİK|Property 12



[OB] ⊥ [PB] , [OA] ⊥ [PA]

α + m(AB) = 180°

1.



O merkezli çember

A Circle with a center O

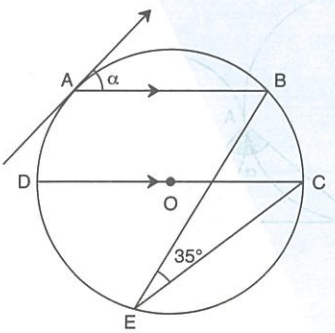
[AC] // [BD]

m(AB) = 50°

⇒ m(AC) = ?

80

2.



O merkezli çember

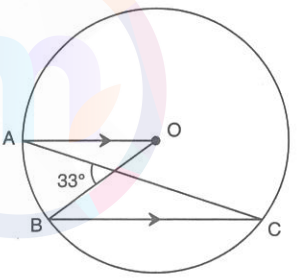
A Circle with a center O

[AB] // [DC]

⇒ α = ?

20

3.



O merkezli çember

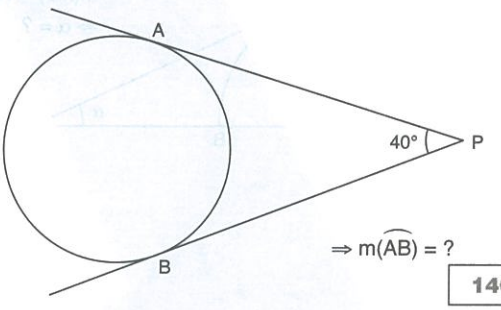
A Circle with a center O

[AO] // [BC]

⇒ m(BC) = ?

136

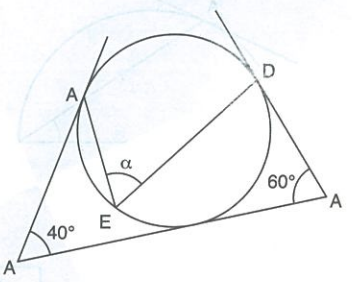
1.



⇒ m(AB) = ?

140

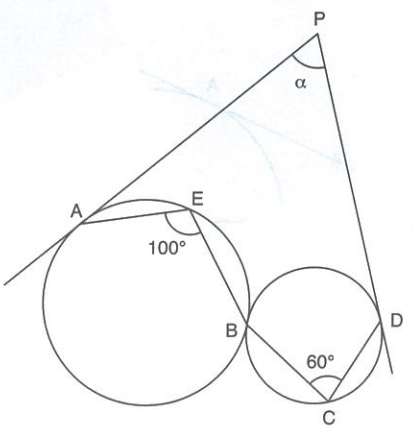
2.



⇒ α = ?

50

3.

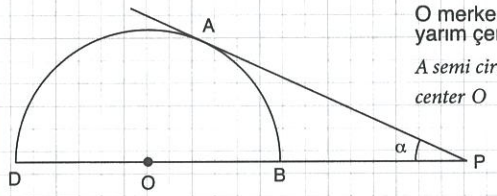


⇒ α = ?

80

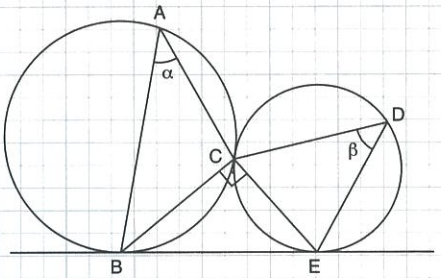
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 13



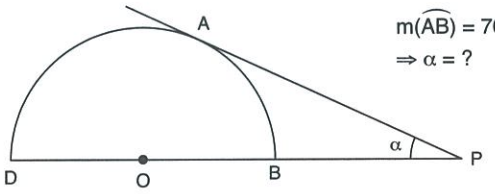
$\alpha + m(\overset{\frown}{AB}) = 90°$

ÖZELLİK|Property 14



$\alpha + \beta = 90°$

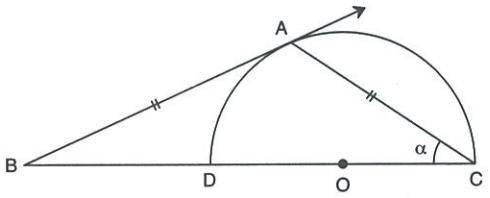
1.



$m(\overset{\frown}{AB}) = 70°$
$\Rightarrow \alpha = ?$

20

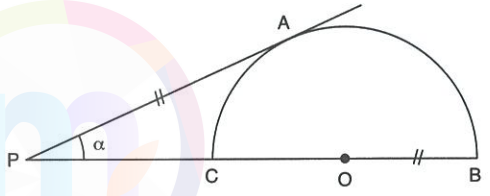
2.



$|AB| = |AC|$
$\Rightarrow \alpha = ?$

30

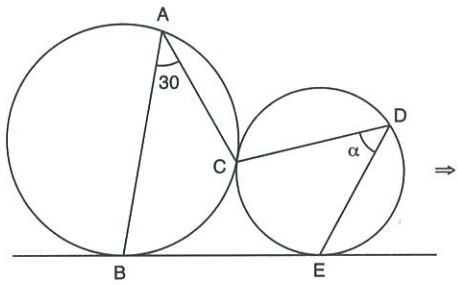
3.



$|AP| = |OB|$
$\Rightarrow \alpha = ?$

45

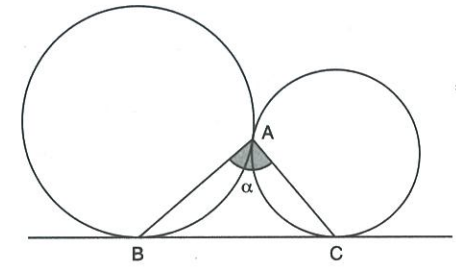
1.



$\Rightarrow \alpha = ?$

60

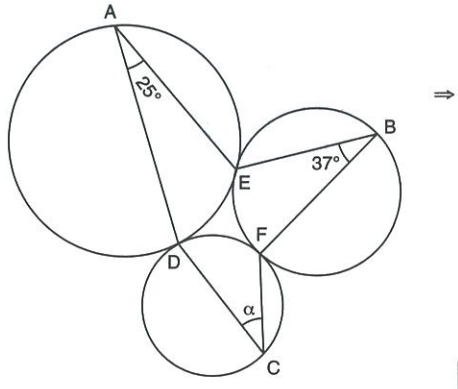
2.



$\Rightarrow \alpha = ?$

90

3.

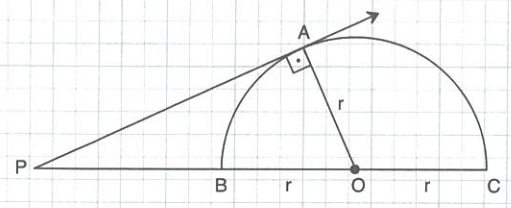


$\Rightarrow \alpha = ?$

28

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

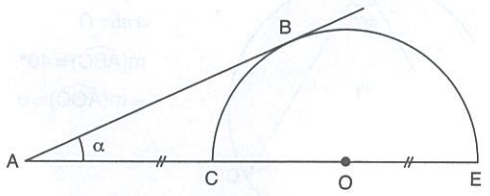
ÖZELLİK|Property 15



O merkezli yarım çember

A semi circle with a center O

1.



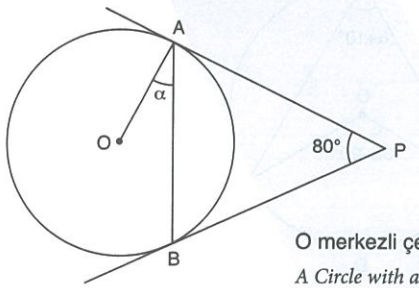
O merkezli yarım çember

A semi circle with a center O

$\Rightarrow \alpha = ?$

30

2.



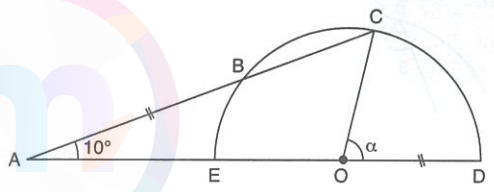
O merkezli çember

A Circle with a center O

$\Rightarrow \alpha = ?$

40

3.



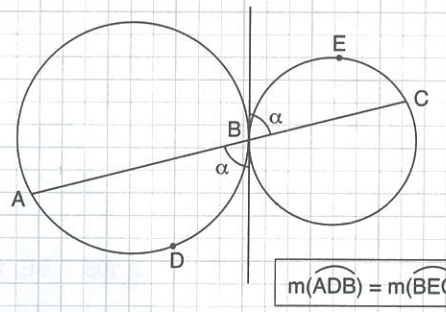
O merkezli yarım çember

A semi circle with a center O

$\Rightarrow \alpha = ?$

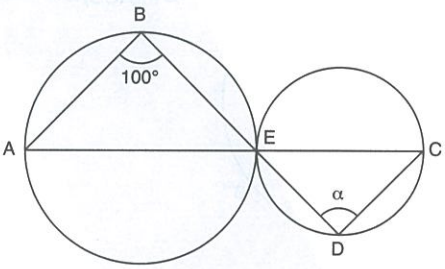
30

ÖZELLİK|Property 16



$m(\overset{\frown}{ADB}) = m(\overset{\frown}{BEC})$

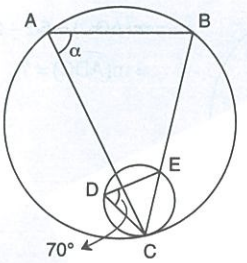
1.



$\Rightarrow \alpha = ?$

100

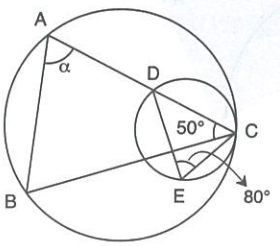
2.



$\Rightarrow \alpha = ?$

70

3.

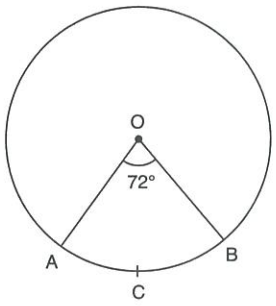


$\Rightarrow \alpha = ?$

50

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



O merkezli çember

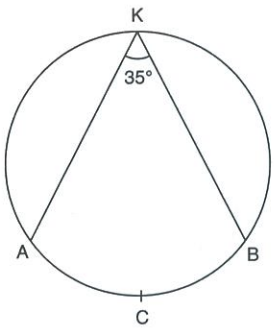
A Circle with a center O

$m(\widehat{AOB}) = 72°$

$\Rightarrow m(\widehat{ACB}) = ?$

A) 36 B) 48 C) 72 D) 108 E) 144

2.

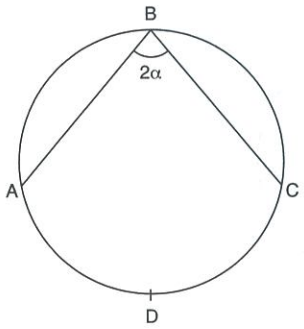


$m(\widehat{AKB}) = 35°$

$\Rightarrow m(\widehat{ACB}) = ?$

A) $\frac{35}{2}$ B) 35 C) 70 D) 140 E) 280

3.



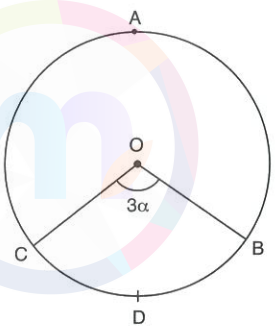
$m(\widehat{ABC}) = 2\alpha$

$m(\widehat{ADC}) = 5\alpha - 20°$

$\Rightarrow m(\widehat{ADC}) = ?$

A) $\frac{40}{3}$ B) 20 C) $\frac{80}{3}$ D) 40 E) 80

4.



O merkezli çember

A Circle with a center O

$m(\widehat{BOC}) = 3\alpha$

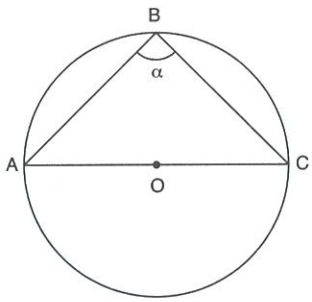
$m(\widehat{CDB}) = 2\alpha + 40°$

$\Rightarrow m(\widehat{BAC}) = ?$

A) 80 B) 120 C) 240 D) 280 E) 320

PUZA YAYINLARI

5.



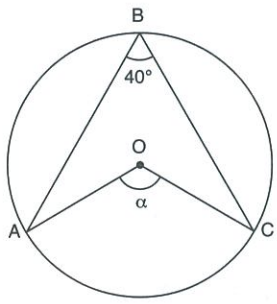
O merkezli çember

A Circle with a center O

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 30 B) 60 C) 75 D) 90 E) 120

6.



O merkezli çember

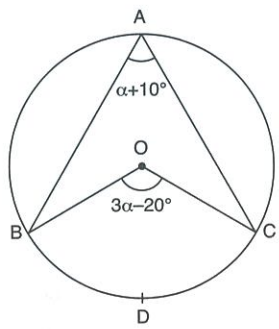
A Circle with a center O

$m(\widehat{ABC}) = 40°$

$\Rightarrow m(\widehat{AOC}) = \alpha = ?$

A) 20 B) 40 C) 60 D) 80 E) 160

7.



O merkezli çember

A Circle with a center O

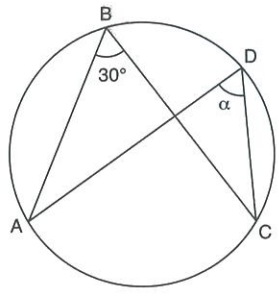
$m(\widehat{BAC}) = \alpha + 10°$

$m(\widehat{BOC}) = 3\alpha - 20°$

$\Rightarrow m(\widehat{BDC}) = ?$

A) 120 B) 100 C) 80 D) 50 E) 40

8.

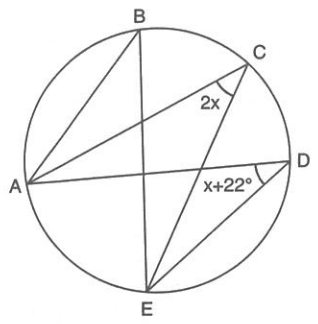


$m(\widehat{ABC}) = 30°$

$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 15 B) 30 C) 45 D) 60 E) 90

9.



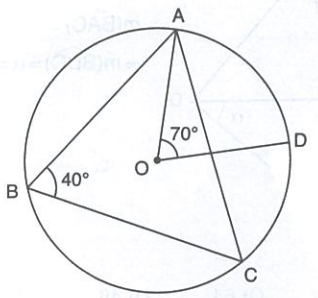
$m(\widehat{ACE}) = 2x$

$m(\widehat{ADE}) = x + 22°$

$\Rightarrow m(\widehat{ABE}) = ?$

A) 44 B) 32 C) 24 D) 22 E) 11

10.



O merkezli çember

A Circle with a center O

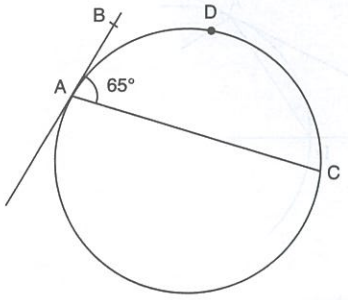
$m(\widehat{ABC}) = 40°$

$m(\widehat{AOD}) = 70°$

$\Rightarrow m(\widehat{DC}) = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

11.

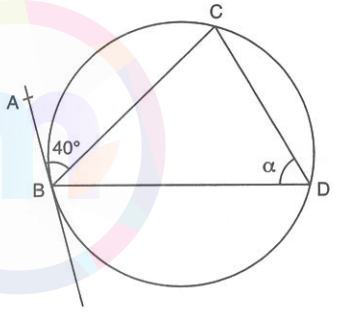


$m(\widehat{BAC}) = 65°$

$\Rightarrow m(\widehat{ADC}) = ?$

A) 22,5 B) 32,5 C) 65 D) 115 E) 130

12.

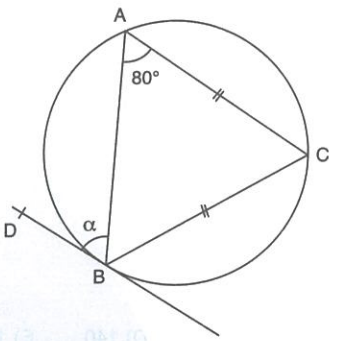


$m(\widehat{ABC}) = 40°$

$\Rightarrow m(\widehat{CDB}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 80 E) 140

13.



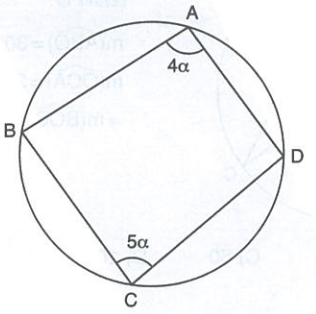
$|AC| = |BC|$

$m(\widehat{BAC}) = 80°$

$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 60 E) 80

14.



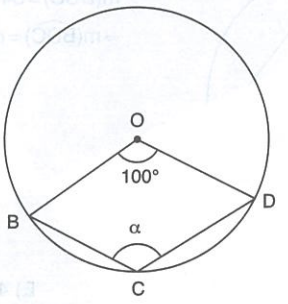
$m(\widehat{BAD}) = 4\alpha$

$m(\widehat{BCD}) = 5\alpha$

$\Rightarrow m(\widehat{BAD}) = ?$

A) 20 B) 80 C) 100 D) 160 E) 200

15.



O merkezli çember

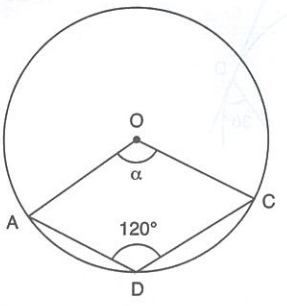
A Circle with a center O

$m(\widehat{BOD}) = 100°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 50 B) 80 C) 100 D) 130 E) 150

16.



O merkezli çember

A Circle with a center O

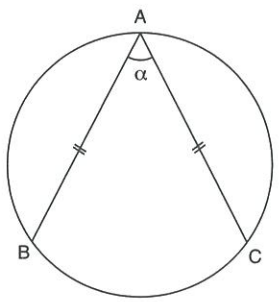
$m(\widehat{ADC}) = 120°$

$\Rightarrow m(\widehat{AOC}) = \alpha = ?$

A) 50 B) 65 C) 100 D) 120 E) 230

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



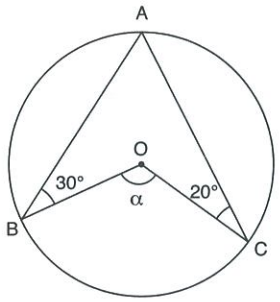
|AB| = |AC|

$m(\widehat{AC}) = 130°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 50 B) 100 C) 120 D) 140 E) 150

2.



O merkezli çember

A Circle with a center O

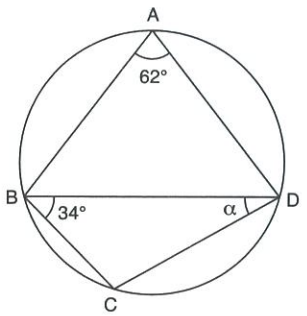
$m(\widehat{ABO}) = 30°$

$m(\widehat{OCA}) = 20°$

$\Rightarrow m(\widehat{BOC}) = \alpha = ?$

A) 20 B) 30 C) 50 D) 100 E) 120

3.



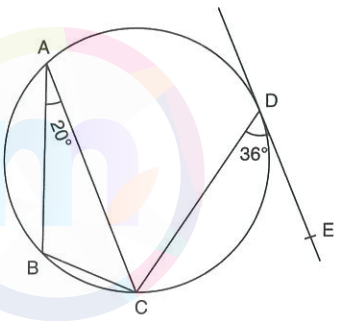
$m(\widehat{BAD}) = 62°$

$m(\widehat{DBC}) = 34°$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 12 B) 24 C) 28 D) 34 E) 46

4.



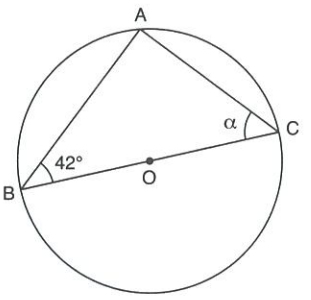
$m(\widehat{BAC}) = 20°$

$m(\widehat{CDE}) = 36°$

$\Rightarrow m(\widehat{BCD}) = ?$

A) 56 B) 78 C) 124 D) 126 E) 132

5.



O merkezli çember

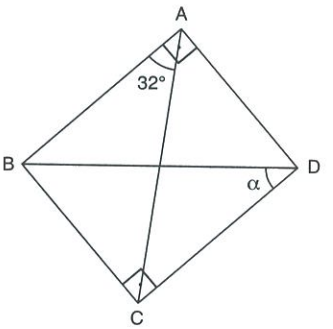
A Circle with a center O

$m(\widehat{ABC}) = 42°$

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 21 B) 42 C) 48 D) 64 E) 84

6.



$[AB] \perp [AD]$

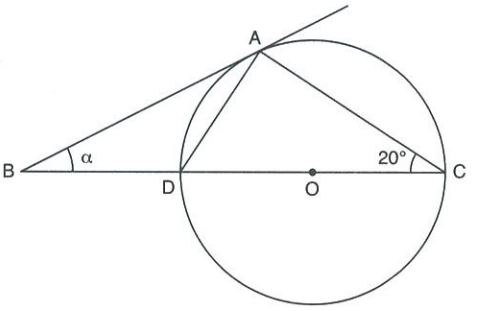
$[BC] \perp [CD]$

$m(\widehat{BAC}) = 32°$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 84 B) 76 C) 64 D) 48 E) 32

7.

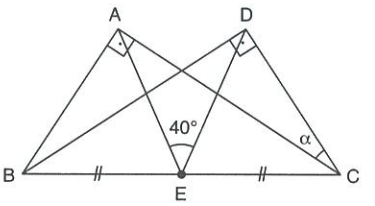


O merkezli çember *A Circle with a center O*

$m(\widehat{ACB}) = 20°$ $\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 20 B) 30 C) 40 D) 50 E) 70

8.



$[BA] \perp [AC]$

$[BD] \perp [DC]$

$|BE| = |EC|$

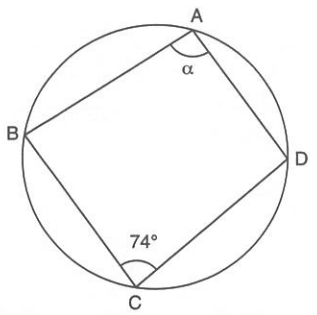
$m(\widehat{AED}) = 40°$

$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 10 B) 20 C) 40 D) 80 E) 140

PUZA YAYINLARI

9.

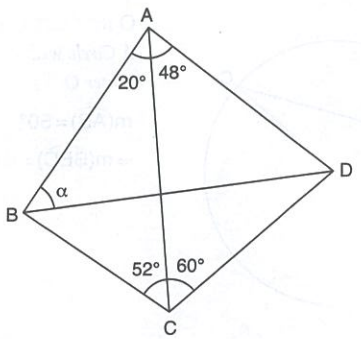


$m(\widehat{BCD}) = 74°$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 37 B) 74 C) 90 D) 106 E) 143

10.



$m(\widehat{BAC}) = 20°$

$m(\widehat{DAC}) = 48°$

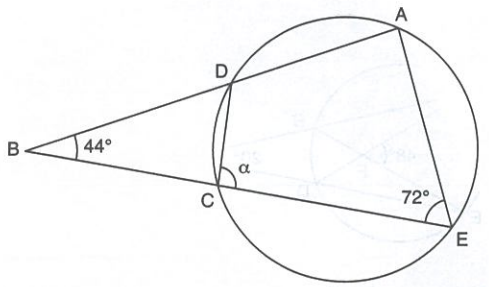
$m(\widehat{DCA}) = 60°$

$m(\widehat{ACB}) = 52$

$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 10 B) 15 C) 26 D) 30 E) 60

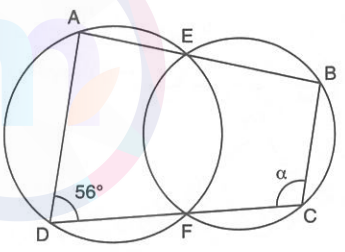
11.



$m(\widehat{AEB}) = 72°$ $m(\widehat{ABE}) = 44°$ $\Rightarrow m(\widehat{DCE}) = \alpha = ?$

A) 116 B) 98 C) 64 D) 58 E) 48

12.



$m(\widehat{ADC}) = 56°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

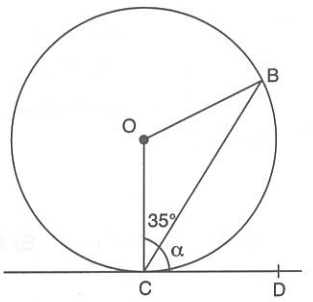
A) 28 B) 34 C) 56 D) 112 E) 124

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

13.



O merkezli çember

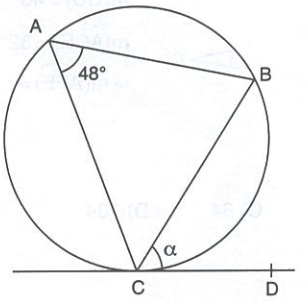
A Circle with a center O

$m(\widehat{OCB}) = 35°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 35 B) 55 C) 70 D) 110 E) 140

14.

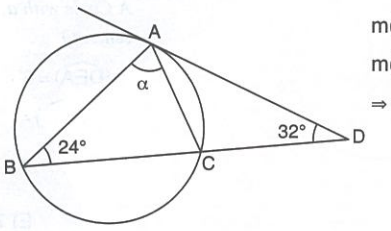


$m(\widehat{BAC}) = 48°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 96 B) 78 C) 56 D) 48 E) 24

15.



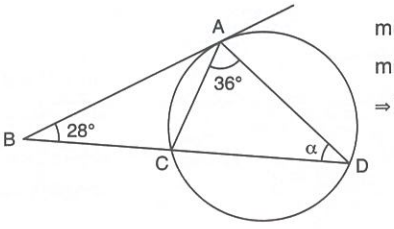
$m(\widehat{ABD}) = 24°$

$m(\widehat{ADB}) = 32°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 112 B) 100 C) 98 D) 84 E) 72

16.



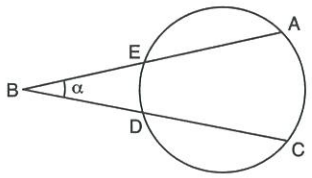
$m(\widehat{ABD}) = 28°$

$m(\widehat{CAD}) = 36°$

$\Rightarrow m(\widehat{ADB}) = \alpha = ?$

A) 36 B) 48 C) 52 D) 58 E) 64

1.



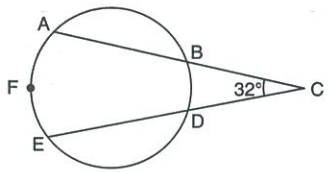
$m(\widehat{AC}) = 80°$

$m(\widehat{ED}) = 20°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 30 B) 50 C) 60 D) 80 E) 100

2.



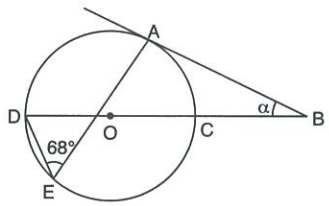
$m(\widehat{BD}) = 40°$

$m(\widehat{ACE}) = 32°$

$\Rightarrow m(\widehat{AFE}) = ?$

A) 4 B) 56 C) 64 D) 104 E) 114

3.



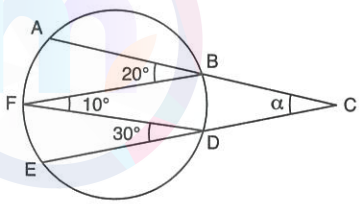
O merkezli çember
A Circle with a center O

$m(\widehat{DEA}) = 68°$

$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 22 B) 44 C) 46 D) 68 E) 76

4.



$m(\widehat{ABF}) = 20°$

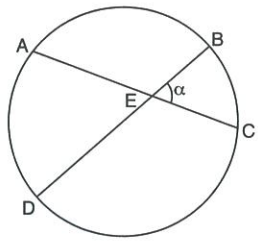
$m(\widehat{BFD}) = 10°$

$m(\widehat{FDE}) = 30°$

$\Rightarrow m(\widehat{ACE}) = \alpha = ?$

A) 120 B) 80 C) 60 D) 40 E) 20

5.



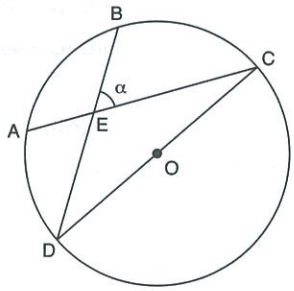
$m(\widehat{BC}) = 40°$

$m(\widehat{AD}) = 56°$

$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 20 B) 28 C) 36 D) 48 E) 96

6.



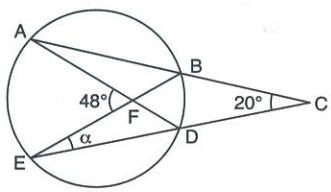
O merkezli çember
A Circle with a center O

$m(\widehat{AB}) = 50°$

$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 115 B) 100 C) 85 D) 75 E) 65

7.



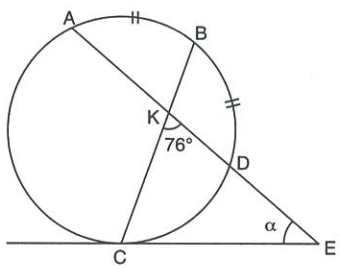
$m(\widehat{AFE}) = 48°$

$m(\widehat{ACE}) = 20°$

$\Rightarrow m(\widehat{BED}) = \alpha = ?$

A) 8 B) 10 C) 14 D) 20 E) 24

8.



$m(\widehat{AB}) = m(\widehat{BD})$

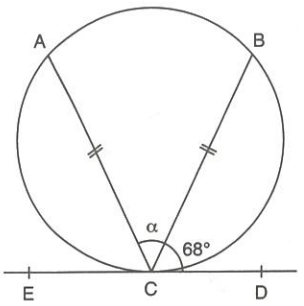
$m(\widehat{CKE}) = 76°$

$\Rightarrow m(\widehat{AEC}) = \alpha = ?$

A) 28 B) 38 C) 42 D) 56 E) 76

PUZA YAYINLARI

9.



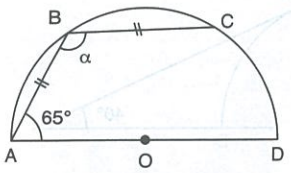
$|AC| = |BC|$

$m(\widehat{BCD}) = 68°$

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 34 B) 44 C) 56 D) 68 E) 88

10.



O merkezli yarım çember

A semi circle with a center O

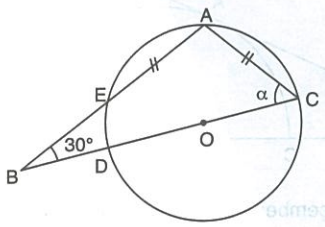
$|AB| = |BC|$

$m(\widehat{BAD}) = 65°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 70 B) 85 C) 110 D) 120 E) 130

11.



O merkezli çember

A Circle with a center O

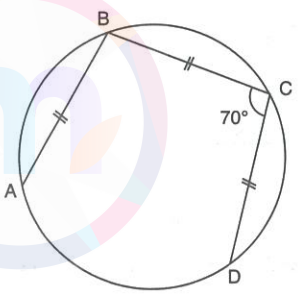
$|EA| = |AC|$

$m(\widehat{ABC}) = 30°$

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 60 E) 70

12.



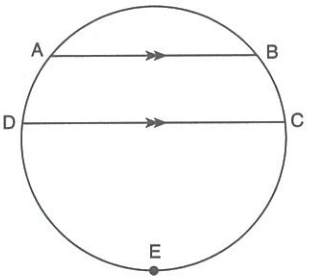
$|AB| = |BC| = |CD|$

$m(\widehat{BCD}) = 70°$

$\Rightarrow m(\widehat{AD}) = ?$

A) 30 B) 45 C) 60 D) 70 E) 90

13.



$[AB] \,//\, [DC]$

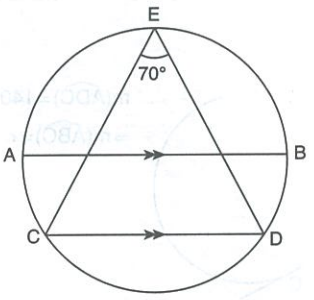
$m(\widehat{AB}) = 50°$

$m(\widehat{DEC}) = 240°$

$\Rightarrow m(\widehat{AD}) = ?$

A) 35 B) 55 C) 70 D) 85 E) 90

14.



$[AB]$ çaplı çember

A Circle with a diameter [AB]

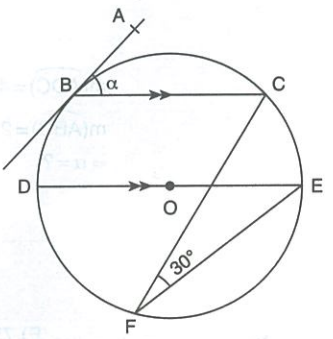
$[AB] \,//\, [CD]$

$m(\widehat{CED}) = 70°$

$\Rightarrow m(\widehat{AC}) = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

15.



O merkezli çember

A Circle with a center O

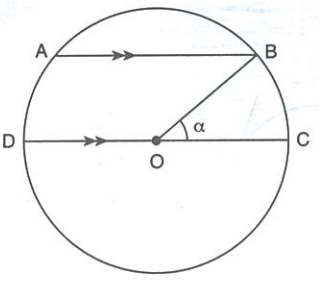
$[BC] \,//\, [DE]$

$m(\widehat{CFE}) = 30°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 75 B) 70 C) 60 D) 45 E) 30

16.



O merkezli çember

A Circle with a center O

$[AB] \,//\, [DC]$

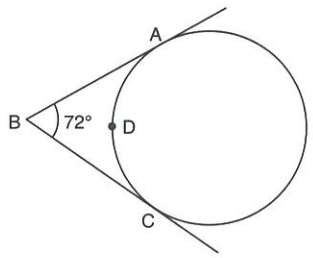
$m(\widehat{AB}) = 80°$

$\Rightarrow m(\widehat{BOC}) = \alpha = ?$

A) 80 B) 60 C) 50 D) 40 E) 25

PUZA YAYINLARI

1.

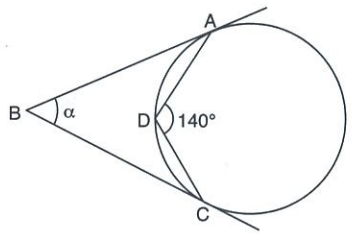


$m(\widehat{ABC}) = 72°$

$\Rightarrow m(\widehat{ADC}) = ?$

A) 36 B) 72 C) 108 D) 144 E) 156

2.

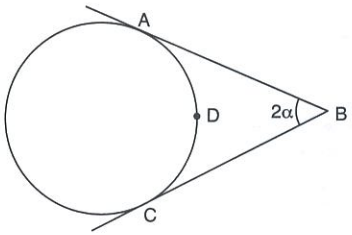


$m(\widehat{ADC}) = 140°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 35 B) 40 C) 70 D) 80 E) 100

3.



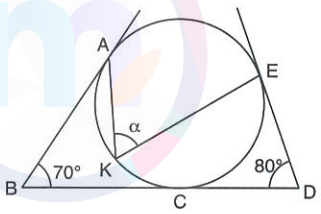
$m(\widehat{ADC}) = 4\alpha$

$m(\widehat{ABC}) = 2\alpha$

$\Rightarrow \alpha = ?$

A) 15 B) 30 C) 45 D) 60 E) 75

4.



$m(\widehat{ABD}) = 70°$

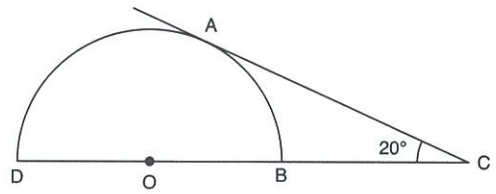
$m(\widehat{EDB}) = 80°$

$\Rightarrow m(\widehat{AKE}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 75 E) 90

PUZA YAYINLARI

5.

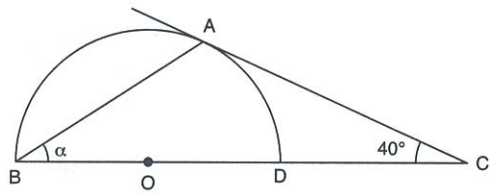


O merkezli yarım çember *A semi circle with a center O*

$m(\widehat{ACD}) = 20°$ $\Rightarrow m(\widehat{AB}) = ?$

A) 20 B) 40 C) 60 D) 70 E) 160

6.

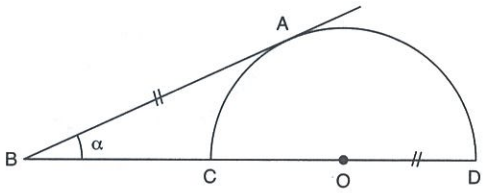


O merkezli yarım çember *A semi circle with a center O*

$m(\widehat{ACB}) = 40°$ $\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 20 B) 25 C) 40 D) 50 E) 70

7.

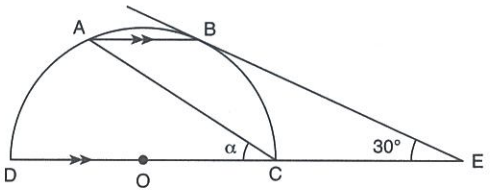


O merkezli yarım çember *A semi circle with a center O*

$|AB| = |OD|$ $\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 15 B) 30 C) 45 D) 60 E) 75

8.



O merkezli yarım çember *A semi circle with a center O*

$[AB] \,//\, [DE]$ $m(\widehat{BED}) = 30°$ $\Rightarrow m(\widehat{ACD}) = \alpha = ?$

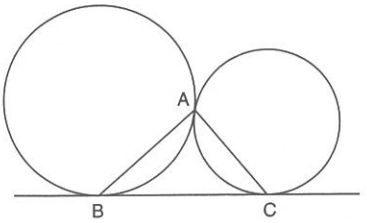
A) 15 B) 30 C) 45 D) 60 E) 75

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

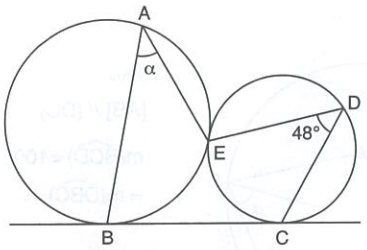
9.



$\Rightarrow m(\widehat{BAC}) = ?$

A) 90 B) 75 C) 60 D) 45 E) 30

10.

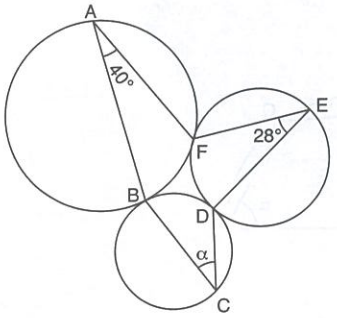


$m(\widehat{EDC}) = 48°$

$\Rightarrow m(\widehat{BAE}) = \alpha = ?$

A) 24 B) 42 C) 48 D) 84 E) 96

11.



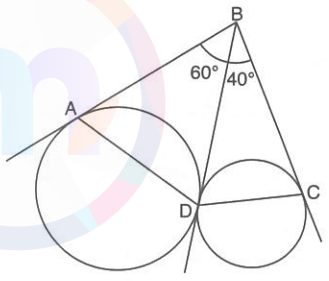
$m(\widehat{BAF}) = 40°$

$m(\widehat{FED}) = 28°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 12 B) 22 C) 32 D) 48 E) 68

12.



$m(\widehat{ABD}) = 60°$

$m(\widehat{DBC}) = 40°$

$\Rightarrow m(\widehat{ADC}) = ?$

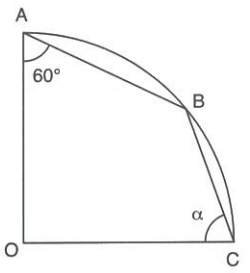
A) 60 B) 80 C) 100 D) 120 E) 130

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

13.



O merkezli çeyrek çember

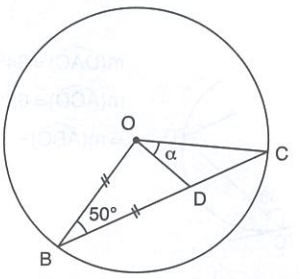
A quarter circle with a center O

$m(\widehat{OAB}) = 60°$

$\Rightarrow m(\widehat{BCO}) = \alpha = ?$

A) 75 B) 60 C) 45 D) 30 E) 15

14.



O merkezli çember

A Circle with a center O

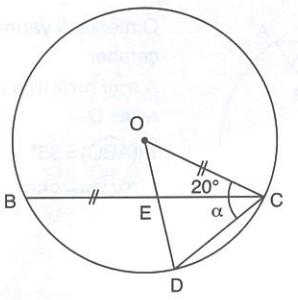
$|OB| = |BD|$

$m(\widehat{OBC}) = 50°$

$\Rightarrow m(\widehat{DOC}) = \alpha = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

15.



O merkezli çember

A Circle with a center O

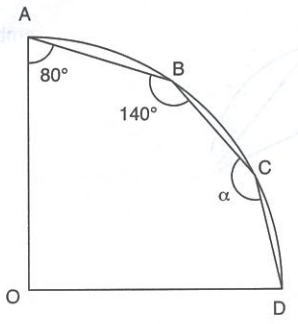
$|BE| = |OC|$

$m(\widehat{OCB}) = 20°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 10 B) 15 C) 20 D) 25 E) 40

16.



O merkezli çeyrek çember

A quarter circle with a center O

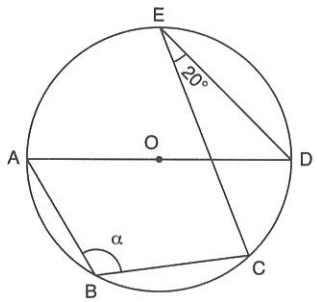
$m(\widehat{OAB}) = 80°$

$m(\widehat{ABC}) = 140°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 110 B) 125 C) 130 D) 145 E) 160

1.



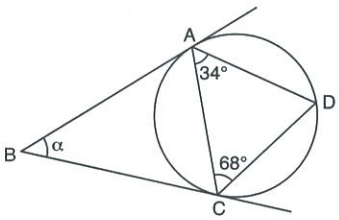
O merkezli çember
A Circle with a center O

$m(\widehat{CED}) = 20°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 110 B) 120 C) 130 D) 140 E) 200

2.



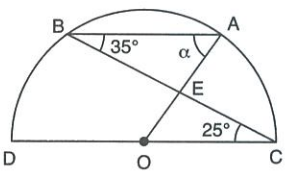
$m(\widehat{DAC}) = 34°$

$m(\widehat{ACD}) = 68°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 24 B) 36 C) 42 D) 48 E) 54

3.



O merkezli yarım çember
A semi circle with a center O

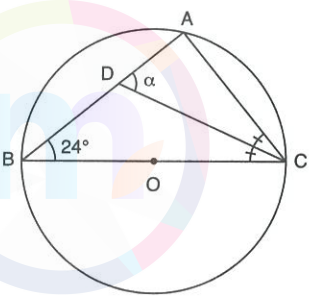
$m(\widehat{ABC}) = 35°$

$m(\widehat{BCD}) = 25°$

$\Rightarrow m(\widehat{BAO}) = \alpha = ?$

A) 20 B) 35 C) 45 D) 55 E) 60

4.



O merkezli çember
A Circle with a center O

$m(\widehat{ACD}) = m(\widehat{DCB})$

$m(\widehat{ABC}) = 24°$

$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 57 B) 48 C) 38 D) 36 E) 33

PUZA YAYINLARI

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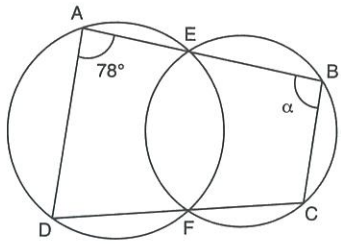
5.

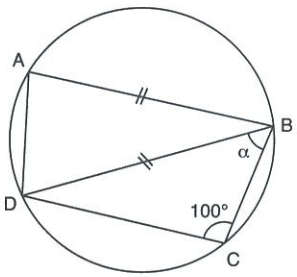


$m(\widehat{DAB}) = 78°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 12 B) 39 C) 78 D) 102 E) 112

6.



$|AB| = |BD|$

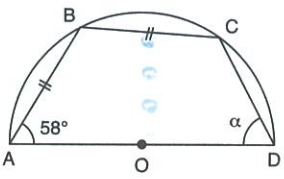
$[AB] \,//\, [DC]$

$m(\widehat{BCD}) = 100°$

$\Rightarrow m(\widehat{DBC}) = \alpha = ?$

A) 20 B) 40 C) 50 D) 60 E) 80

7.



O merkezli yarım çember
A semi circle with a center O

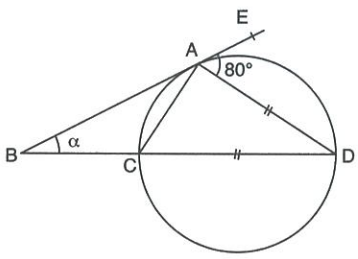
$|AB| = |BC|$

$m(\widehat{BAD}) = 58°$

$\Rightarrow m(\widehat{CDA}) = \alpha = ?$

A) 128 B) 108 C) 66 D) 64 E) 54

8.



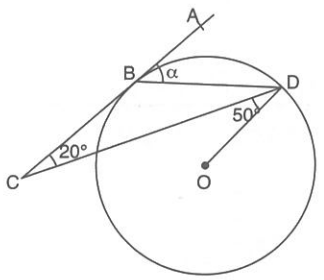
$m(\widehat{EAD}) = 80°$

$|AD| = |DC|$

$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 15 B) 20 C) 30 D) 45 E) 60

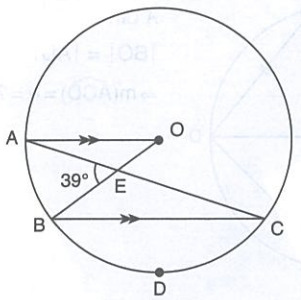
9.



O merkezli çember
A Circle with O
$m(\widehat{ACD}) = 20°$
$m(\widehat{ODC}) = 50°$
$\Rightarrow m(\widehat{ABD}) = \alpha = ?$

A) 30 B) 40 C) 50 D) 60 E) 80

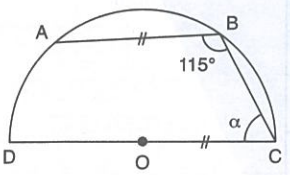
10.



O merkezli çember
A Circle with a center O
[AO] // [BC]
$m(\widehat{AEB}) = 39°$
$\Rightarrow m(\widehat{BDC}) = ?$

A) 128 B) 108 C) 94 D) 84 E) 72

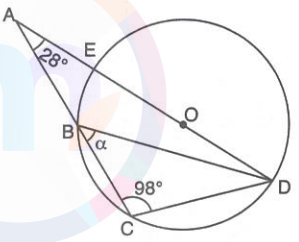
11.



O merkezli yarım çember
A semi circle with center O
$|AB| = |OC|$
$m(\widehat{ABC}) = 115°$
$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 30 B) 40 C) 45 D) 50 E) 55

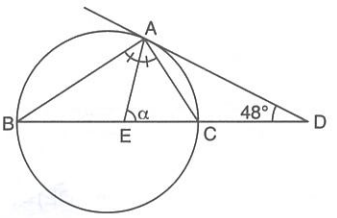
12.



O merkezli çember
A Circle with a center O
$m(\widehat{CAD}) = 28°$
$m(\widehat{ACD}) = 98°$
$\Rightarrow m(\widehat{DBC}) = \alpha = ?$

A) 36 B) 40 C) 44 D) 45 E) 52

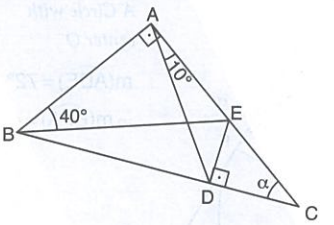
13.



$m(\widehat{BAE}) = m(\widehat{EAC})$
$m(\widehat{ADB}) = 48°$
$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 24 B) 48 C) 66 D) 72 E) 78

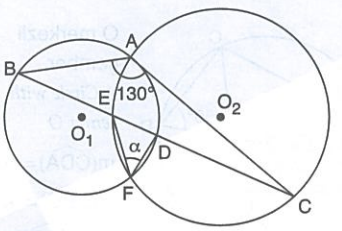
14.



[BA] ⊥ [AC]
[ED] ⊥ [BC]
$m(\widehat{DAC}) = 10°$
$m(\widehat{ABE}) = 40°$
$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

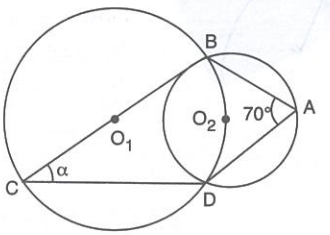
15.



O_1 ve O_2 merkezli çemberler
Circle with central points O_1 and O_2
$m(\widehat{BAC}) = 130°$
$\Rightarrow m(\widehat{EFD}) = \alpha = ?$

A) 30 B) 45 C) 50 D) 65 E) 80

16.

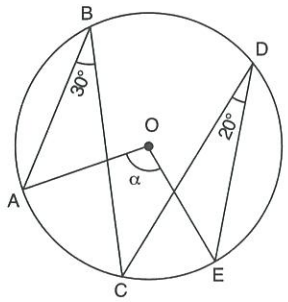


O_1 ve O_2 merkezli çemberler
Circle with central points O_1 and O_2
$O_2 \in (\widehat{BD})$
$m(\widehat{BAD}) = 70°$
$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 10 B) 20 C) 30 D) 40 E) 50

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

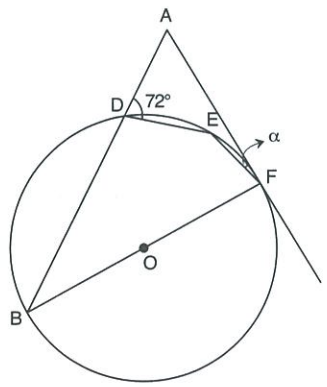
1.



O merkezli çember
A Circle with center O
$m(\widehat{ABC}) = 30°$
$m(\widehat{CDE}) = 20°$
$\Rightarrow m(\widehat{AOE}) = \alpha = ?$

A) 25 B) 50 C) 75 D) 100 E) 150

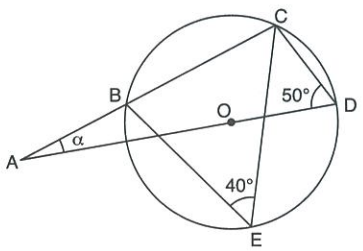
2.



O merkezli çember
A Circle with center O
$m(\widehat{ADE}) = 72°$
$\Rightarrow m(\widehat{EFA}) = \alpha = ?$

A) 9 B) 18 C) 27 D) 36 E) 48

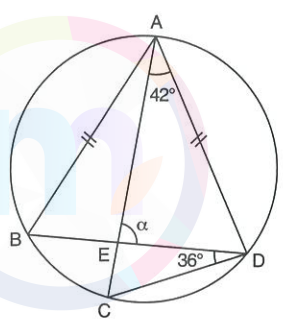
3.



O merkezli çember
A Circle with center O
$m(\widehat{CDA}) = 50°$
$m(\widehat{BEC}) = 40°$
$\Rightarrow m(\widehat{CAD}) = \alpha = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

4.

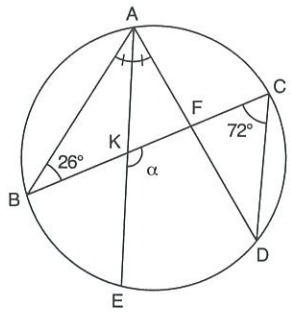


$|AB| = |AD|$
$m(\widehat{CAD}) = 42°$
$m(\widehat{BDC}) = 36°$
$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 45 B) 53 C) 62 D) 65 E) 87

PUZA YAYINLARI

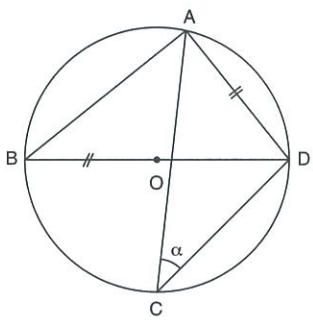
5.



$m(\widehat{BAE}) = m(\widehat{EAD})$
$m(\widehat{ABC}) = 26°$
$m(\widehat{BCD}) = 72°$
$\Rightarrow m(\widehat{EKC}) = \alpha = ?$

A) 44 B) 48 C) 52 D) 62 E) 118

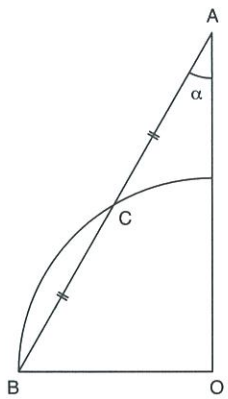
6.



O merkezli çember
A Circle with center O
$|BO| = |AD|$
$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 15 B) 30 C) 45 D) 60 E) 75

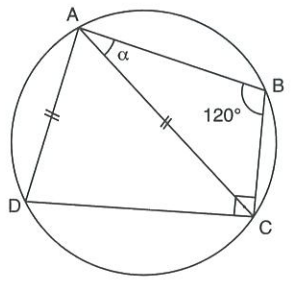
7.



O merkezli çeyrek çember
A quarter circle with center O
$|AC| = |CB|$
$\Rightarrow m(\widehat{BAO}) = \alpha = ?$

A) 45 B) 40 C) 30 D) 20 E) 10

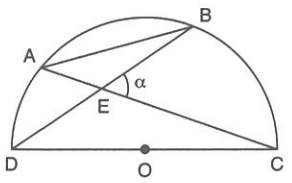
8.



$|AD| = |AC|$
$[BC] \perp [DC]$
$m(\widehat{ABC}) = 120°$
$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 10 B) 15 C) 30 D) 40 E) 45

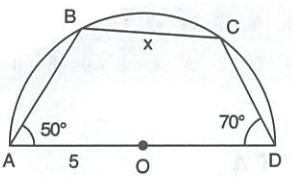
9.



O merkezli yarım çember
A semi circle with center O
$|AB| = |DO| = 4$ br
$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 20 B) 30 C) 45 D) 50 E) 60

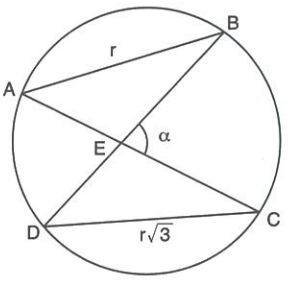
10.



O merkezli yarım çember
A semi circle with center O
$m(\widehat{BAD}) = 50°$
$m(\widehat{CDA}) = 70°$
$|AO| = 5$ br
$\Rightarrow |BC| = x = ?$

A) $\frac{5}{2}$ B) 5 C) $5\sqrt{2}$ D) $5\sqrt{3}$ E) 20

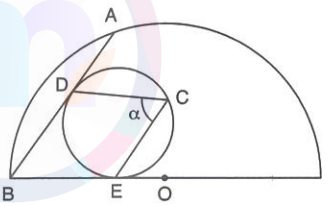
11.



r yarıçaplı çember
circle of radius r
$|AB| = r$ br
$|DC| = r\sqrt{3}$ br
$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 75 E) 90

12.

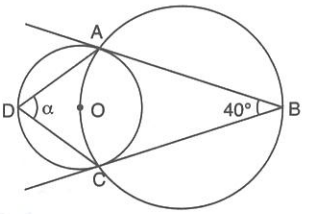


O merkezli yarım çember
A semi circle with center O
$m(\widehat{AB}) = 80°$
$\Rightarrow m(\widehat{DCE}) = \alpha = ?$

A) 130 B) 100 C) 80 D) 65 E) 50

PUZA YAYINLARI

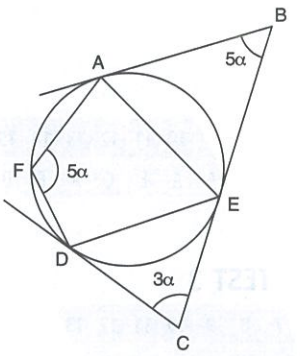
13.



O merkezli çember
A circle with center O
$O \in (\widehat{AC})$
$m(\widehat{ABC}) = 40°$
$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 40 B) 50 C) 70 D) 80 E) 100

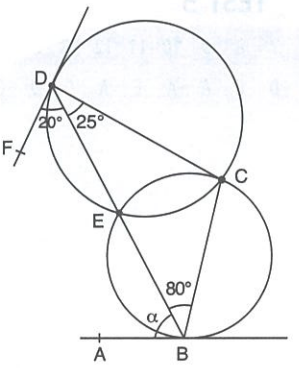
14.



$m(\widehat{ABC}) = 5\alpha$
$m(\widehat{BCD}) = 3\alpha$
$m(\widehat{AFD}) = 5\alpha$
$\Rightarrow m(\widehat{AED}) = ?$

A) 40 B) 60 C) 80 D) 100 E) 120

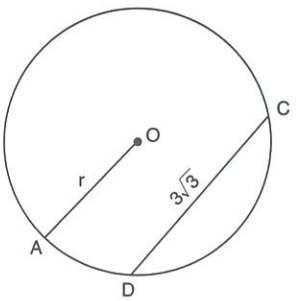
15.



$m(\widehat{FDB}) = 20°$
$m(\widehat{BDC}) = 25°$
$m(\widehat{DBC}) = 80°$
$\Rightarrow m(\widehat{DBA}) = \alpha = ?$

A) 55 B) 50 C) 45 D) 40 E) 35

16.



O merkezli çember
A Circle with center O
$|DC| = 3\sqrt{3}$ br
$m(\widehat{CD}) = 120°$
$\Rightarrow |OA| = r = ?$

A) $\frac{3}{2}$ B) 3 C) $3\sqrt{2}$ D) $3\sqrt{3}$ E) 6

ÇEMBERDE AÇI ANGLE IN CIRCLE

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	E	C	D	D	B	B	A	A	E	C	A	B	D	D

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	C	C	C	E	D	B	D	E	A	E	B	D	B	D

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	C	D	D	E	C	A	B	E	C	A	A	B	E	C

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	E	B	D	D	B	C	B	A	B	B	E	A	C	E	D

TEST 5

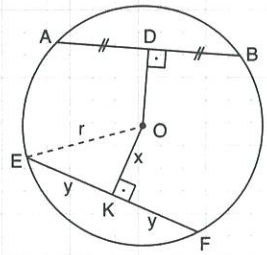
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	A	E	A	D	D	D	E	A	A	E	A	C	D	C	D

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	E	E	E	B	C	C	E	B	E	D	C	C	A	B

ÇEMBERDE UZUNLUK
LENGTH IN CIRCLE

ÖZELLİK|Property 1

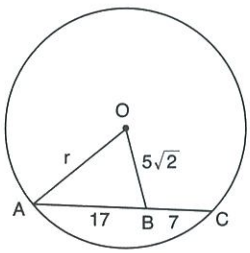


$[OD] \perp [AB] \Rightarrow |AD| = |DB|$

$|OD| > |OK| \Rightarrow |AB| < |EF|$

$x^2 + y^2 = r^2$

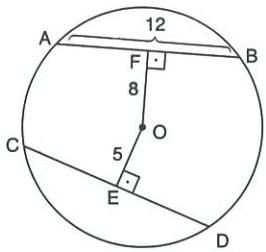
1.



$\Rightarrow r = ?$

13

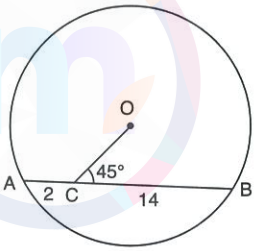
2.



$\Rightarrow |CD| = ?$

$10\sqrt{3}$

3.



$\Rightarrow r = ?$

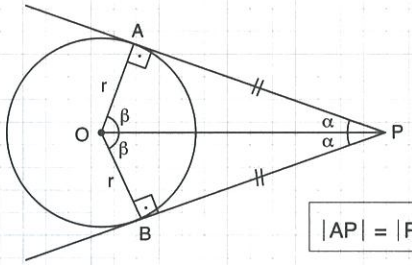
10

PUZA YAYINLARI

PUZA YAYINLARI

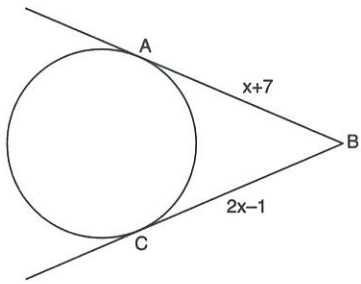
PUZA YAYINLARI

ÖZELLİK|Property 2



$|AP| = |PB|$

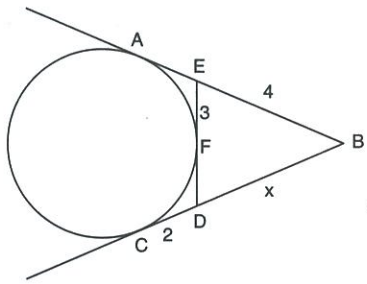
1.



$\Rightarrow x = ?$

8

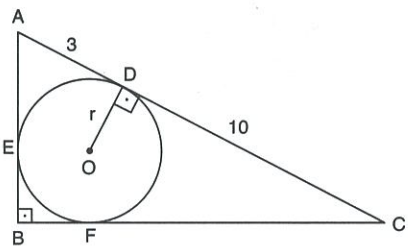
2.



$\Rightarrow |BD| = x = ?$

5

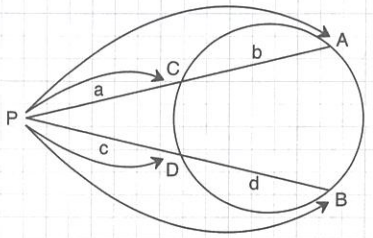
3.



$\Rightarrow r = ?$

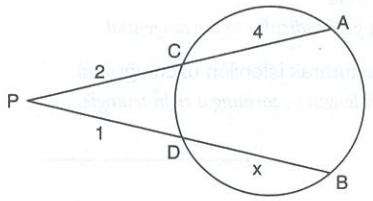
2

ÖZELLİK|Property 3



$a(a + b) = c(c + d)$

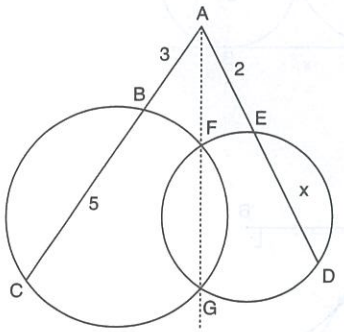
1.



$\Rightarrow x = ?$

11

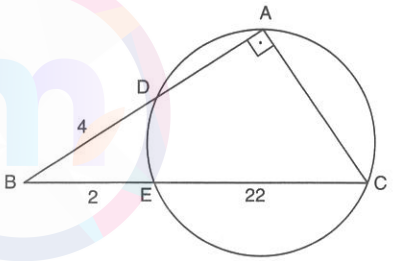
2.



$\Rightarrow x = ?$

10

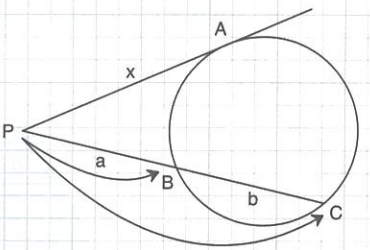
3.



$\Rightarrow r = ?$

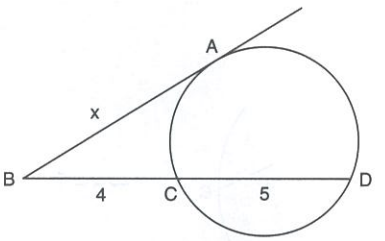
$2\sqrt{31}$

ÖZELLİK|Property 4



$x^2 = a(a + b)$

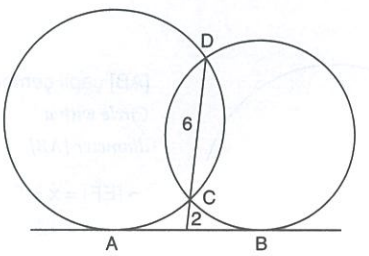
1.



$\Rightarrow x = ?$

6

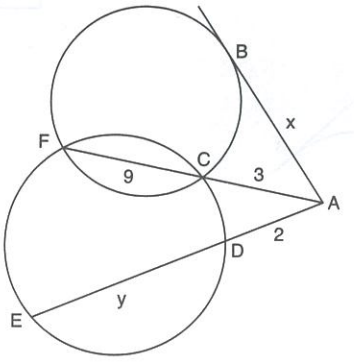
2.



$\Rightarrow |AB| = ?$

8

3.

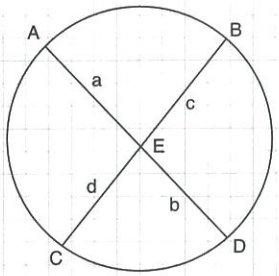


$\Rightarrow y - x = ?$

10

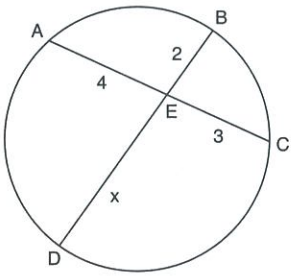
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 5



$a \cdot b = c \cdot d$

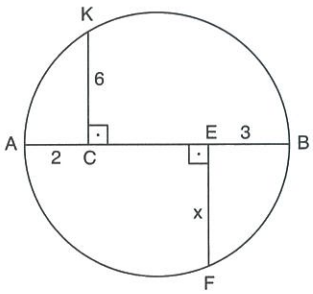
1.



$\Rightarrow x = ?$

6

2.

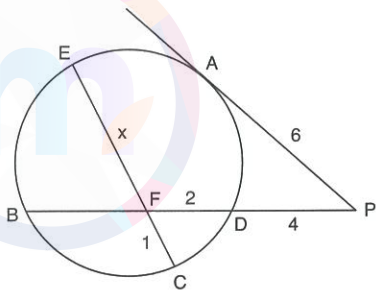


[AB] çaplı çember
Circle with a diameter [AB]

$\Rightarrow |EF| = x = ?$

$\sqrt{51}$

3.

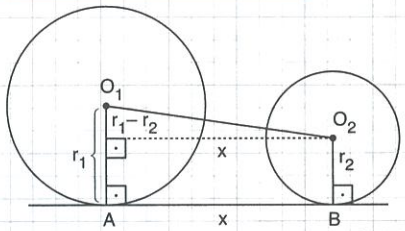


$\Rightarrow x = ?$

6

PUZA YAYINLARI

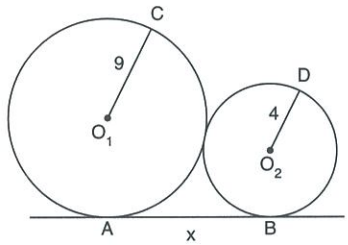
ÖZELLİK|Property 6



$|O_1O_2|^2 = (r_1 - r_2)^2 + x^2$

- Merkezden merkeze doğru çek.
  Draw from the center to center.
- Teğetlere dik indir.
  Draw a normal perpendicular to the tangential.
- Dik üçgen oluşturarak istenilen uzunluğu bul.
  Find the desired length by forming a right triangle.

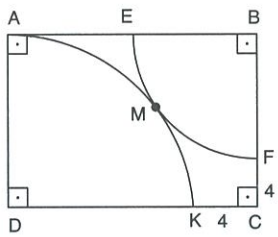
1.



$\Rightarrow x = ?$

12

2.

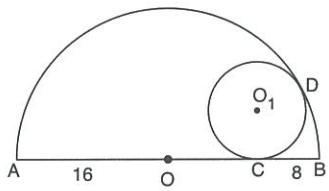


B ve D merkezli çeyrek çemberler
quarter circles with B and D center points

$\Rightarrow A(ABCD) = ?$

192

3.



$\Rightarrow r_1 = ?$

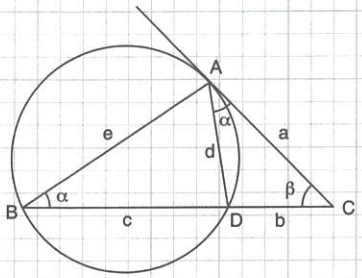
6

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

ÖZELLİK|Property 7

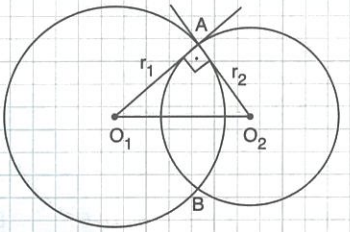


$\widehat{ABC} \approx \widehat{DAC}$ Benzer üçgenler

Similar triangles

$$\frac{d}{e} = \frac{b}{a} = \frac{a}{b+c}$$

ÖZELLİK|Property 8

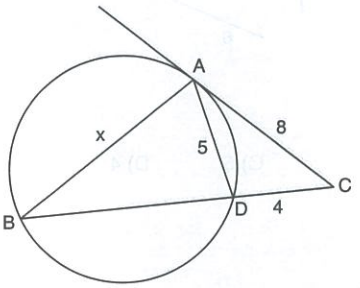


Çemberler dik kesişiyor

The circles intersect perpendicularly

$$(r_1)^2 + (r_2)^2 = |O_1O_2|^2$$

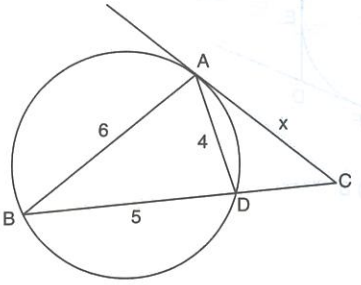
1.



$\Rightarrow x = ?$

10

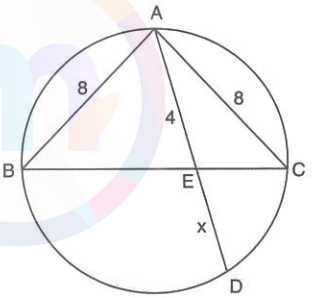
2.



$\Rightarrow x = ?$

6

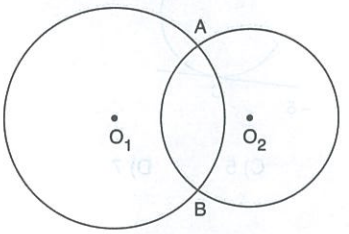
3.



$\Rightarrow x = ?$

12

1.



Çemberler dik kesişiyor

The circles intersect perpendicularly

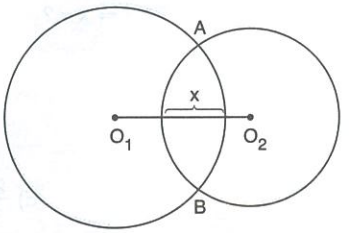
$r_1 = 6$

$r_2 = 8$

$\Rightarrow |O_1\ O_2| = ?$

10

2.



Çemberler dik kesişiyor

The circles intersect perpendicularly

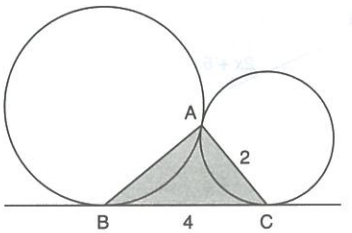
$r_1 = 12$

$r_2 = 5$

$\Rightarrow x = ?$

4

3.

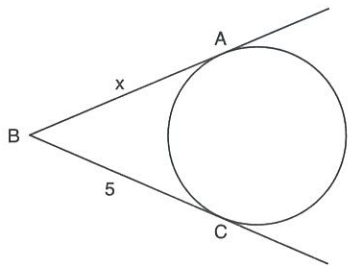


$\Rightarrow A(ABC) = ?$

$2\sqrt{3}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.

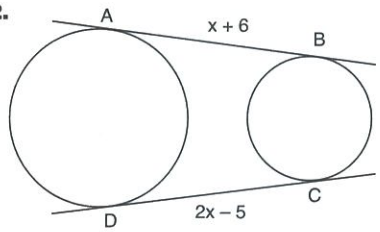


$|BC| = 5$ br

$\Rightarrow |AB| = x = ?$

A) $\frac{3}{2}$ B) 2 C) $\frac{5}{2}$ D) 5 E) $\frac{15}{2}$

2.



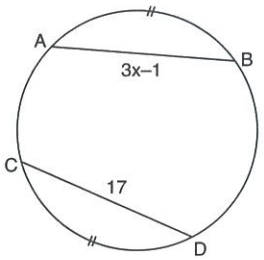
$|AB| = (x + 6)$ br

$|DC| = (2x - 5)$ br

$\Rightarrow x = ?$

A) 1 B) 3 C) 5 D) 7 E) 11

3.



$m(\widehat{AB}) = m(\widehat{CD})$

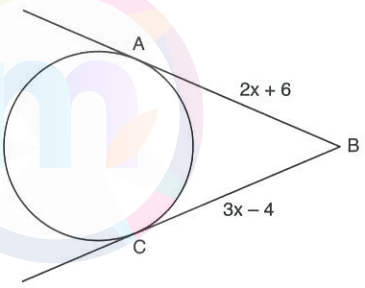
$|AB| = 3x - 1$ br

$|CD| = 17$ br

$\Rightarrow x = ?$

A) 4 B) 5 C) $\frac{16}{3}$ D) 6 E) $\frac{20}{3}$

4.



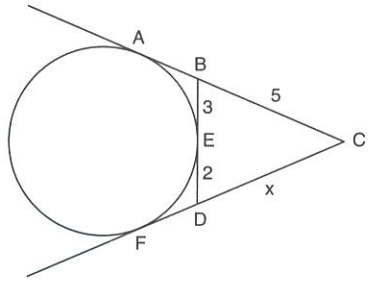
$|AB| = 2x + 6$

$|BC| = 3x - 4$

$\Rightarrow x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

5.



$|BE| = 3$ br

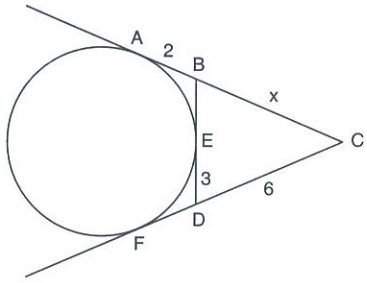
$|ED| = 2$ br

$|BC| = 5$ br

$\Rightarrow |DC| = x = ?$

A) 7 B) 6 C) 5 D) 4 E) 3

6.



$|AB| = 2$ br

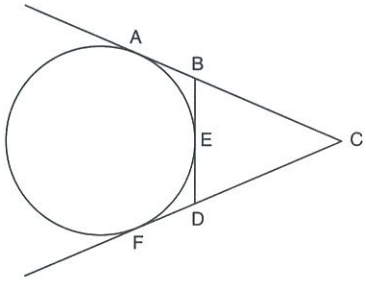
$|ED| = 3$ br

$|DC| = 6$ br

$\Rightarrow |BC| = x = ?$

A) 7 B) 6 C) 5 D) 4 E) 3

7.

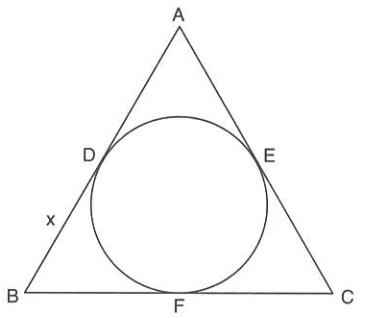


$|AC| = 8$ br

$\Rightarrow$ Ç(BDC) = ?

A) 4 B) 8 C) 16 D) 24 E) 32

8.



$|AB| = 7$ br

$|AC| = 9$ br

$|BC| = 8$ br

$\Rightarrow |BD| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

PUZA YAYINLARI

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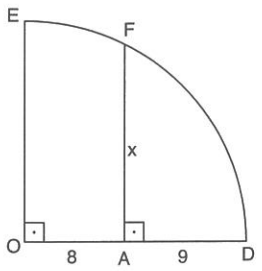
9.



O merkezli çeyrek çember

A quarter circle with a center O

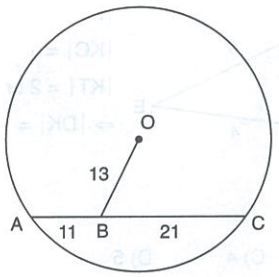
$|OA| = 8$ br

$|AD| = 9$ br

$\Rightarrow |FA| = x = ?$

A) 5 B) 9 C) 12 D) 15 E) 17

10.



O merkezli çemberin yarıçapı r

Radius r of a circle with a center O

$|OB| = 13$ br

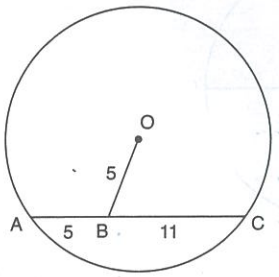
$|AB| = 11$ br

$|BC| = 21$ br

$\Rightarrow r = ?$

A) 20 B) 16 C) 15 D) 13 E) 12

11.



O merkezli çemberin yarıçapı r

Radius r of a circle with a center O

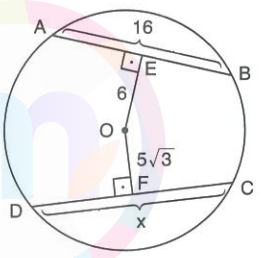
$|OB| = |AB| = 5$ br

$|BC| = 11$ br

$\Rightarrow r = ?$

A) 5 B) $2\sqrt{5}$ C) 10 D) $4\sqrt{5}$ E) $8\sqrt{5}$

12.



O merkezli çember

A circile with a center O

$|AB| = 16$ br

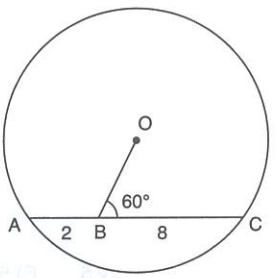
$|OE| = 6$ br

$|OF| = 5\sqrt{3}$ br

$\Rightarrow |DC| = x = ?$

A) 20 B) 16 C) 12 D) 10 E) 8

13.



O merkezli çemberin yarıçapı r

Radius r of a circle with a center O

$m(\widehat{OBC}) = 60°$

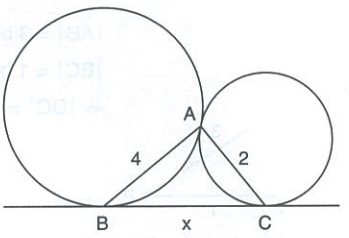
$|AB| = 2$ br

$|BC| = 8$ br

$\Rightarrow r = ?$

A) $4\sqrt{3}$ B) 7 C) $2\sqrt{13}$ D) 8 E) 10

14.



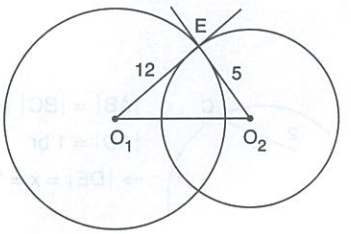
$|AB| = 4$ br

$|AC| = 2$ br

$\Rightarrow |BC| = x = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) 5 D) 8 E) $4\sqrt{5}$

15.



O_1 ve O_2 merkezli çemberler dik kesişiyor.

Circles with O_1 and O_2 center intersect perpendicularly

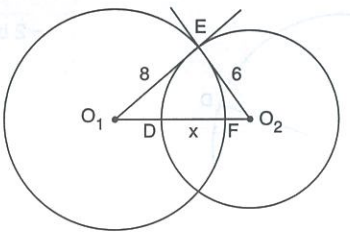
$|O_1E| = 12$ br

$|O_2E| = 5$ br

$\Rightarrow |O_1O_2| = ?$

A) 17 B) 15 C) 13 D) 12 E) 7

16.



O_1 ve O_2 merkezli çemberler dik kesişiyor.

Circles with O_1 and O_2 center intersect perpendicularly

$|O_1E| = 8$ br

$|O_2E| = 6$ br

$\Rightarrow |DF| = x = ?$

A) 2 B) 4 C) 5 D) 6 E) 8

PUZA YAYINLARI

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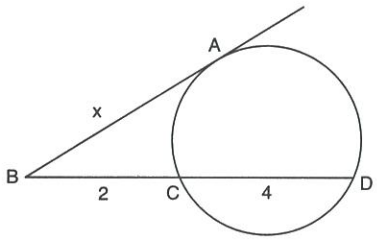
PUZA YAYINLARI

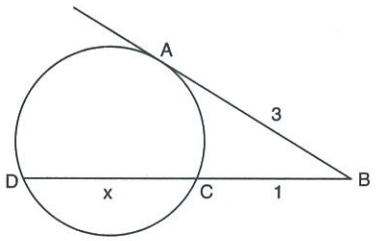
1.



$|BC| = 2$ br
$|CD| = 4$ br
$\Rightarrow |AB| = x = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 4 D) $2\sqrt{5}$ E) 5

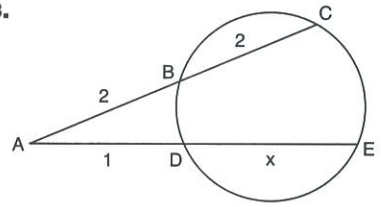
2.



$|AB| = 3$ br
$|BC| = 1$ br
$\Rightarrow |DC| = x = ?$

A) 8 B) $4\sqrt{5}$ C) 5 D) $2\sqrt{5}$ E) 3

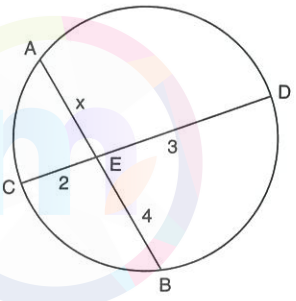
3.



$|AB| = |BC| = 2$ br
$|AD| = 1$ br
$\Rightarrow |DE| = x = ?$

A) 8 B) 7 C) 6 D) 5 E) 4

4.

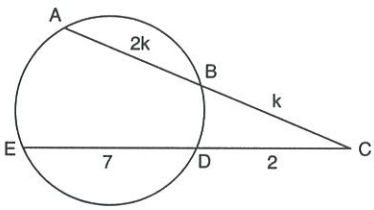


$|CE| = 2$ br
$|ED| = 3$ br
$|EB| = 4$ br
$\Rightarrow |AE| = x = ?$

A) $\frac{3}{2}$ B) 2 C) $\frac{5}{2}$ D) 3 E) $\frac{7}{2}$

PUZA YAYINLARI

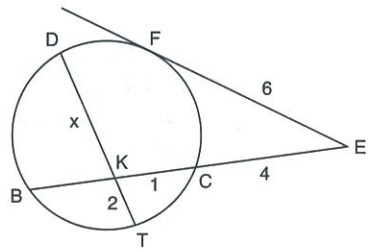
5.



$|AB| = 2|BC| = 2k$
$|DC| = 2$ br
$|ED| = 7$ br
$\Rightarrow k = ?$

A) 2 B) $\sqrt{5}$ C) $\sqrt{6}$ D) 3 E) $2\sqrt{3}$

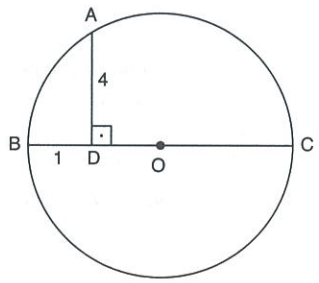
6.



$|EF| = 6$ br
$|EC| = 4$ br
$|KC| = 1$ br
$|KT| = 2$ br
$\Rightarrow |DK| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

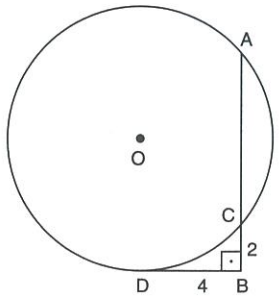
7.



O merkezli çemberin yarıçapı r
Radius r of a circle with a center O
$[AD] \perp [BC]$
$|AD| = 4$ br
$|BD| = 1$ br
$\Rightarrow r = ?$

A) 4 B) 6 C) $\frac{15}{2}$ D) 8 E) $\frac{17}{2}$

8.

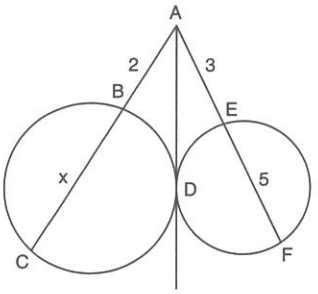


O merkezli çemberin yarıçapı r
Radius r of a circle with a center O
$|DB| = 2|BC| = 4$ br
$\Rightarrow r = ?$

A) 4 B) 5 C) 6 D) 8 E) 10

PUZA YAYINLARI

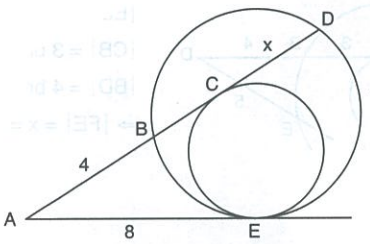
9.



$|AE| = 3$ br
$|EF| = 5$ br
$|AB| = 2$ br
$\Rightarrow |BC| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

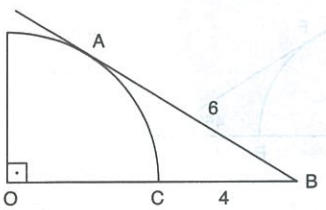
10.



$|AB| = 4$ br
$|AE| = 8$ br
$\Rightarrow |CD| = x = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

11.



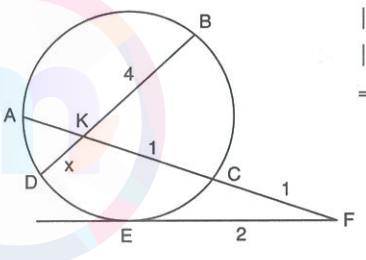
O merkezli çeyrek çemberin yarıçapı r

Radius r of a quarter circle with a center O

$|AB| = 6$ br
$|BC| = 4$ br
$\Rightarrow r = ?$

A) $\frac{5}{4}$ B) $\frac{5}{2}$ C) 5 D) $\frac{15}{2}$ E) 10

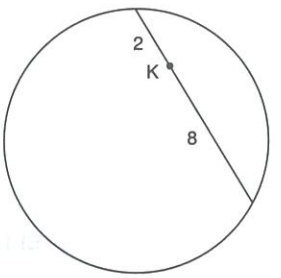
12.



$|KC| = |CF| = 1$ br
$|BK| = 2|EF| = 4$ br
$\Rightarrow |DK| = x = ?$

A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

13.

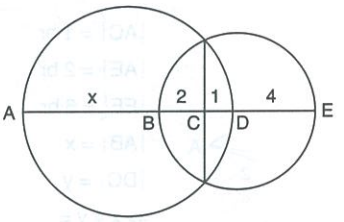


K noktasından geçen en kısa kirişin uzunluğu kaç br dir?

How many unit is the length of the shortest chord that passes trought the point K?

A) 4 B) 6 C) 8 D) 10 E) 12

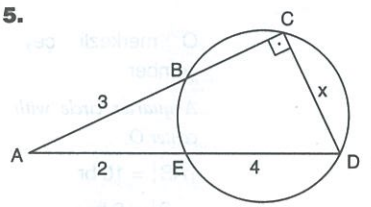
14.



$|BC| = 2$ br
$|CD| = 1$ br
$|DE| = 4$ br
$\Rightarrow |AB| = x = ?$

A) 10 B) 8 C) 6 D) 4 E) 2

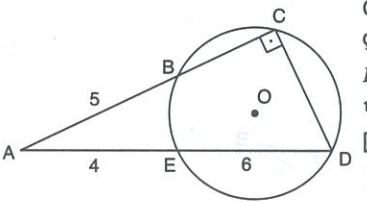
15.



$[AC] \perp [CD]$
$|AB| = 3$ br
$|AE| = 2$ br
$|ED| = 4$ br
$\Rightarrow |CD| = x = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 4 D) $2\sqrt{5}$ E) 5

16.



O merkezli çemberin yarıçapı r

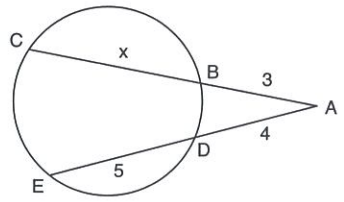
Radius r of a circle with a center O

$[AC] \perp [CD]$
$|AB| = 5$ br
$|ED| = 6$ br
$|AE| = 4$ br
$\Rightarrow r = ?$

A) $\sqrt{5}$ B) $\frac{3\sqrt{5}}{2}$ C) 5 D) $3\sqrt{5}$ E) 10

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

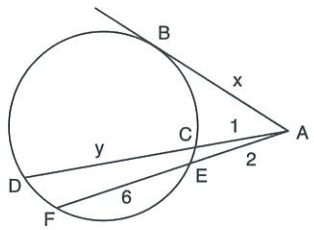
1.



$|AB| = 3$ br
$|AD| = 4$ br
$|ED| = 5$ br
$\Rightarrow |CB| = x = ?$

A) 7 B) 8 C) 9 D) 10 E) 11

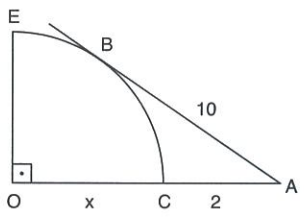
2.



$|AC| = 1$ br
$|AE| = 2$ br
$|EF| = 6$ br
$|AB| = x$
$|DC| = y$
$\Rightarrow x + y = ?$

A) 15 B) 16 C) 16 D) 18 E) 19

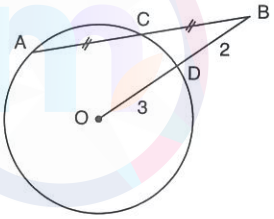
3.



O merkezli çeyrek çember
A quarter circle with a center O
$|AB| = 10$ br
$|AC| = 2$ br
$[AO] \perp [OE]$
$\Rightarrow |OC| = x = ?$

A) 24 B) 26 C) 30 D) 48 E) 50

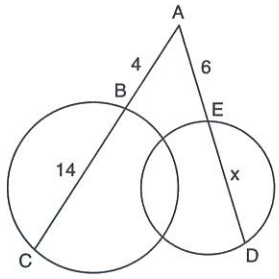
4.



O merkezli çember
A circle with a center O
$|CB| = |AC|$
$|BD| = 2$ br
$|OD| = 3$ br
$\Rightarrow |AB| = ?$

A) $2\sqrt{2}$ B) $4\sqrt{2}$ C) $8\sqrt{2}$ D) $16\sqrt{2}$ E) $18\sqrt{2}$

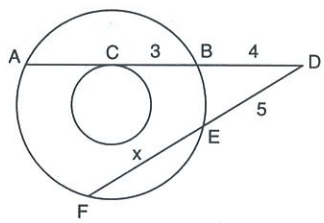
5.



$|AB| = 4$ br
$|AE| = 6$ br
$|BC| = 14$ br
$\Rightarrow |ED| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

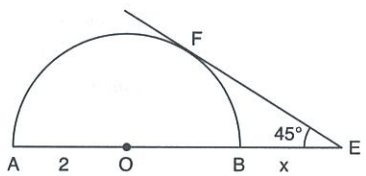
6.



$|ED| = 5$ br
$|CB| = 3$ br
$|BD| = 4$ br
$\Rightarrow |FE| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

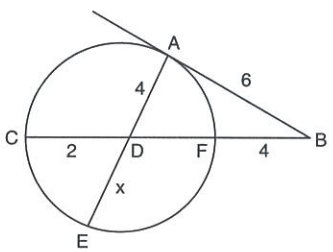
7.



O merkezli yarım çember
A semi circle with a center O
$m(\widehat{FEA}) = 45°$
$|OA| = 2$ br
$\Rightarrow |BE| = x = ?$

A) $2\sqrt{2}$ B) $2\sqrt{2} - 2$ C) $4\sqrt{2}$
D) $2\sqrt{2} + 2$ E) $4\sqrt{2} - 2$

8.

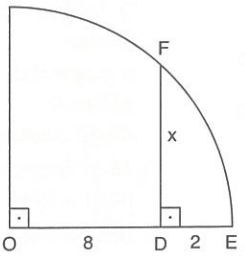


$|AB| = 6$ br
$|DA| = 4$ br
$|CD| = 2$ br
$|FB| = 4$ br
$\Rightarrow |DE| = x = ?$

A) $\frac{5}{2}$ B) 2 C) $\frac{3}{2}$ D) 1 E) $\frac{1}{2}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

9.



O merkezli çeyrek çember

A quarter circle with a center O

$|OD| = 8$ br

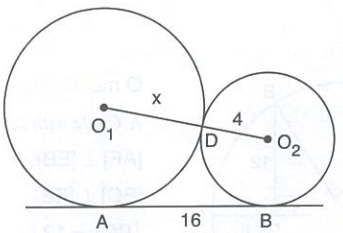
$|DE| = 2$ br

$[FD] \perp [OE]$

$\Rightarrow |DF| = x = ?$

A) 2 B) $2\sqrt{2}$ C) 4 D) 6 E) $6\sqrt{2}$

10.



O_1 ve O_2 merkez

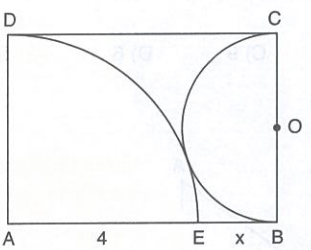
$|DO_2| = 4$ br

$|AB| = 16$ br

$\Rightarrow |DO_1| = x = ?$

A) 16 B) 10 C) 9 D) 8 E) 7

11.



A merkezli çeyrek çember

A quarter circle with a center A

O merkezli yarım çember

A semi circle with a center O

ABCD dikdörtgen

ABCD rectangle

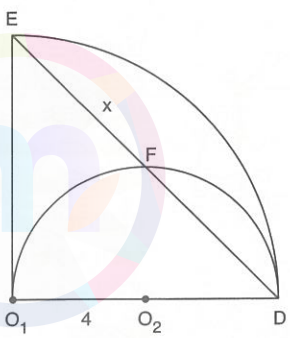
$|AE| = 4$ br

$\Rightarrow |EB| = x = ?$

A) $4\sqrt{2} - 4$ B) $2\sqrt{2}$ C) $2\sqrt{2} + 2$

D) $2\sqrt{2} - 2$ E) $4\sqrt{2} - 2$

12.



O_1 ve O_2 merkezli çemberler

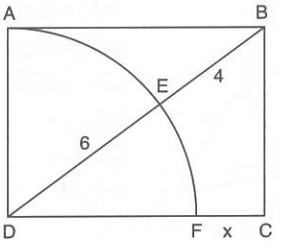
Circles with O_1 and O_2 center points

$|O_1O_2| = 4$ br

$\Rightarrow |EF| = x = ?$

A) $2\sqrt{2}$ B) 3 C) $3\sqrt{2}$ D) 4 E) $4\sqrt{2}$

13.



D merkezli çeyrek çember

A quarter circle with a center D

ABCD dikdörtgen

ABCD rectangle

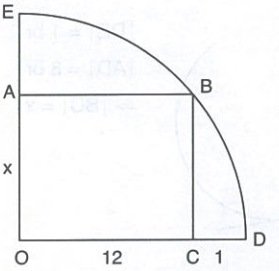
$|DE| = 6$ br

$|EB| = 4$ br

$\Rightarrow |FC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

14.



ABCO dikdörtgen

ABCO rectangle

O merkezli çeyrek çember

A quarter circle with a center O

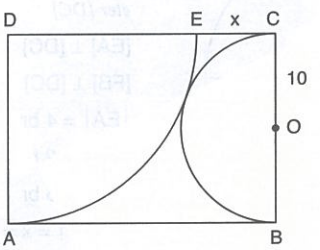
$|OC| = 12$ br

$|CD| = 1$ br

$\Rightarrow |AO| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

15.



ABCD dikdörtgen

ABCD rectangle

D ve O merkezli çemberler

Circles with D and O center points

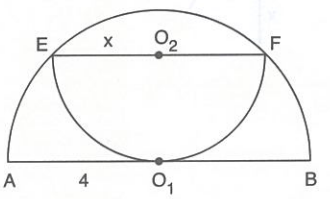
$|CO| = 10$ br

$\Rightarrow |EC| = x = ?$

A) $20\sqrt{2} + 2$ B) $20\sqrt{2}$ C) $10\sqrt{2} - 10$

D) $20(\sqrt{2} - 1)$ E) $20\sqrt{2} - 10$

16.



$|AO_1| = 4$ br

O_1 ve O_2 merkezli yarım çemberler

Semi circles with O_1 and O_2 center points

$\Rightarrow |EO_2| = x = ?$

A) $\sqrt{2}$ B) 2 C) $2\sqrt{2}$ D) 4 E) $4\sqrt{2}$

PUZA YAYINLARI

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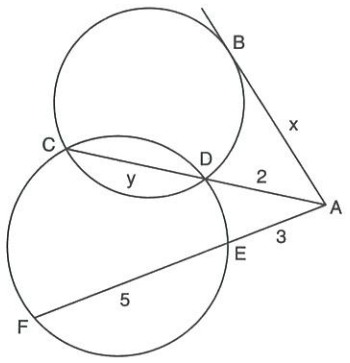
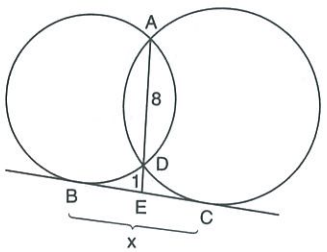
1.



|AD| = 2 br
|AE| = 3 br
|EF| = 5 br
|AB| = x
|DC| = y
$\Rightarrow \frac{x}{y} = ?$

A) $\frac{\sqrt{3}}{5}$ B) $\frac{\sqrt{6}}{5}$ C) 2 D) $2\sqrt{3}$ E) 4

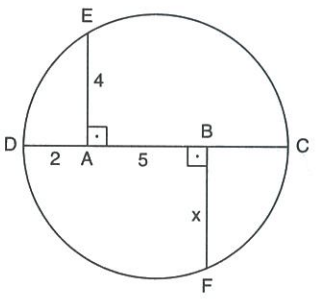
2.



|DE| = 1 br
|AD| = 8 br
$\Rightarrow$ |BC| = x = ?

A) $\frac{3}{2}$ B) 3 C) 6 D) 9 E) 18

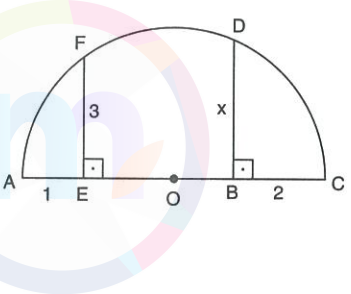
3.



[DC] çaplı çember
Circle with a diameter [DC]
[EA] ⊥ [DC]
[FB] ⊥ [DC]
|EA| = 4 br
|DA| = 2 br
|AB| = 5 br
$\Rightarrow$ |BF| = x = ?

A) 4 B) $\sqrt{21}$ C) 5 D) 8 E) $2\sqrt{21}$

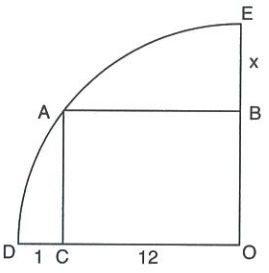
4.



O merkezli yarım çember
A semi circle with a center O
[FE] ⊥ [AC]
[DB] ⊥ [AC]
|FE| = 3 br
|AE| = 1 br
|BC| = 2 br
$\Rightarrow$ |DB| = x = ?

A) 2 B) 3 C) 4 D) 5 E) 6

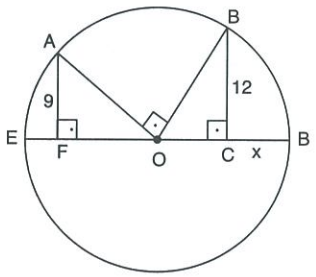
5.



O merkezli çeyrek çember
A quarter circle with a center O
ABOC dikdörtgen
ABOC rectangle
|CO| = 12 br
|DC| = 1 br
$\Rightarrow$ |BE| = x = ?

A) 5 B) 7 C) 8 D) 10 E) 12

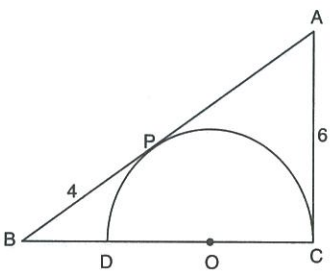
6.



O merkezli çember
A Circle with center O
[AF] ⊥ [EB]
[BC] ⊥ [EB]
|BC| = 12 br
|AF| = 9 br
$\Rightarrow$ |CB| = x = ?

A) 15 B) 12 C) 9 D) 6 E) 5

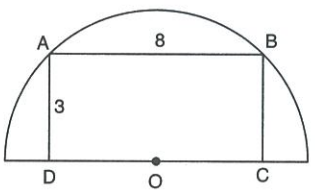
7.



O merkezli yarım çemberin yarıçapı r
Radius r of a semi circle with a center O
|AC| = 6 br
|BP| = 4 br
$\Rightarrow$ r = ?

A) 8 B) 6 C) 5 D) 4 E) 3

8.

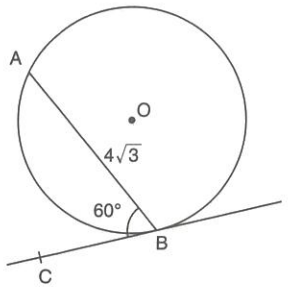


O merkezli yarım çemberin yarıçapı r
Radius r of a semi circle with a center O
ABCD dikdörtgen
ABCD rectangle
|AD| = 3 br
|AB| = 8 br
$\Rightarrow$ r = ?

A) 4 B) 5 C) 6 D) 8 E) 10

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

9.



O merkezli çemberin yarıçapı r

Radius r of a circle with a center O

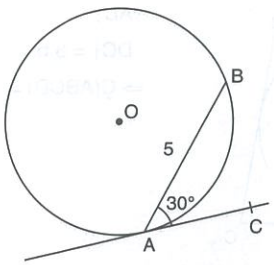
$m(\widehat{ABC}) = 60°$

$|AB| = 4\sqrt{3}$ br

$\Rightarrow r = ?$

A) 2 B) 4 C) $4\sqrt{3}$ D) 8 E) $8\sqrt{3}$

10.



O merkezli çemberin yarıçapı r

Radius r of a circle with a center O

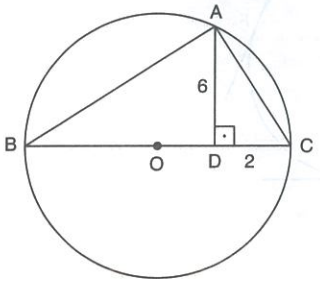
$|AB| = 5$ br

$m(\widehat{BAC}) = 30°$

$\Rightarrow r = ?$

A) $\frac{5}{2}$ B) 5 C) $5\sqrt{3}$ D) 10 E) $10\sqrt{3}$

11.



O merkezli çemberin yarıçapı r

Radius r of a circle with a center O

$[AD] \perp [BC]$

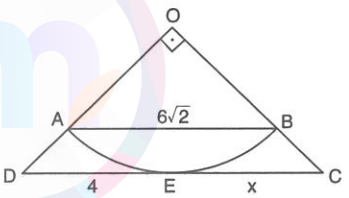
$|AD| = 6$ br

$|DC| = 2$ br

$\Rightarrow r = ?$

A) 6 B) $6\sqrt{2}$ C) 9 D) 10 E) $10\sqrt{2}$

12.



O merkezli çeyrek çember

A quarter circle with a center O

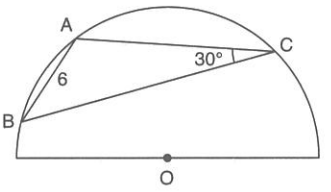
$|DE| = 4$ br

$|AB| = 6\sqrt{2}$ br

$\Rightarrow |EC| = x = ?$

A) 9 B) 8 C) 6 D) 5 E) 4

13.



O merkezli yarım çemberin yarıçapı r

Radius r of a semi circle with a center O

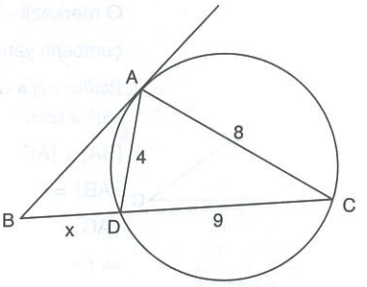
$m(\widehat{ACB}) = 30°$

$|AB| = 6$ br

$\Rightarrow r = ?$

A) $12\sqrt{3}$ B) 12 C) $6\sqrt{3}$ D) 6 E) $3\sqrt{3}$

14.



$|AD| = 4$ br

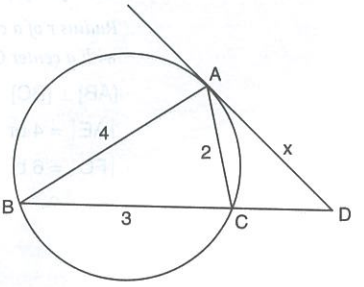
$|AC| = 8$ br

$|DC| = 9$ br

$\Rightarrow |BD| = x = ?$

A) 2 B) 3 C) $\frac{7}{2}$ D) $\frac{13}{3}$ E) 4

15.



$|AB| = 4$ br

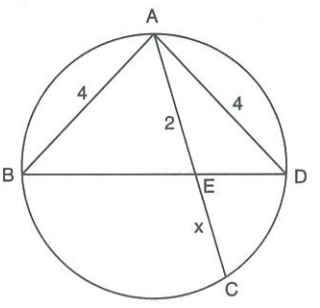
$|BC| = 3$ br

$|AC| = 2$ br

$\Rightarrow |AD| = x = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

16.



$|AB| = |AD| = 4$ br

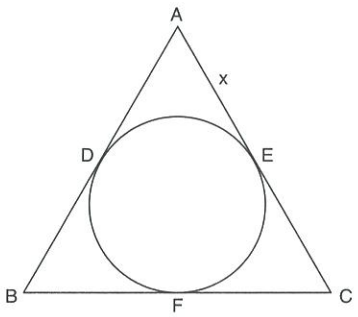
$|AE| = 2$ br

$\Rightarrow |EC| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 9

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

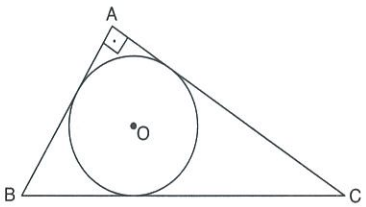
1.



|AB| = 6 br
|AC| = 8 br
|BC| = 4 br
⇒ |AE| = x = ?

A) 5 B) 4 C) 3 D) 2 E) 1

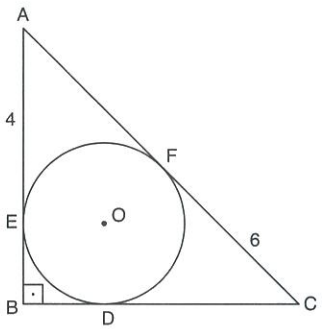
2.



O merkezli çemberin yarıçapı r
Radius r of a circle with a center O
[BA] ⊥ [AC]
|AB| = 6 br
|AC| = 8 br
⇒ r = ?

A) 5 B) 4 C) 3 D) 2 E) 1

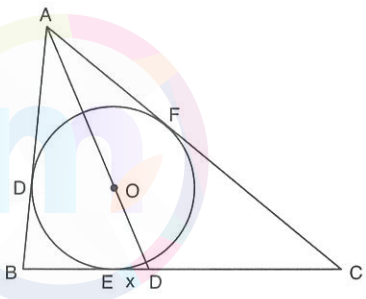
3.



O merkezli çemberin yarıçapı r
Radius r of a circle with a center O
[AB] ⊥ [BC]
|AE| = 4 br
|FC| = 6 br
⇒ r = ?

A) 5 B) 4 C) 3 D) 2 E) 1

4.

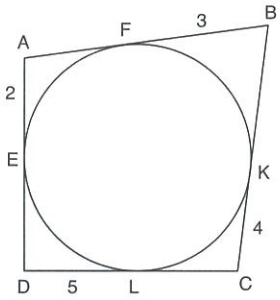


O merkezli çember
A circle with a center O
|AB| = 8 br
|AC| = 12 br
|BC| = 10 br
⇒ |ED| = x = ?

A) $\frac{2}{5}$ B) $\frac{1}{2}$ C) 1 D) $\frac{3}{2}$ E) $\frac{5}{2}$

PUZA YAYINLARI

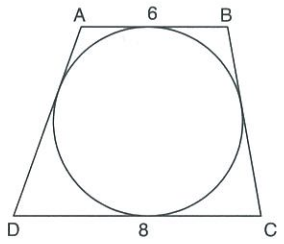
5.



|FB| = 3 br
|AE| = 2 br
|KC| = 4 br
|DL| = 5 br
⇒ Ç(ABCD) = ?

A) 14 B) 21 C) 28 D) 35 E) 42

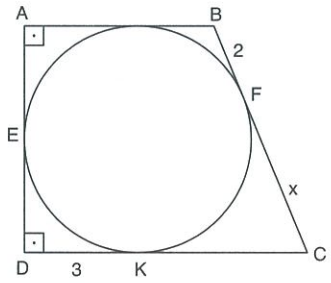
6.



|AB| = 6 br
|DC| = 8 br
⇒ Ç(ABCD) = ?

A) 14 B) 21 C) 28 D) 35 E) 42

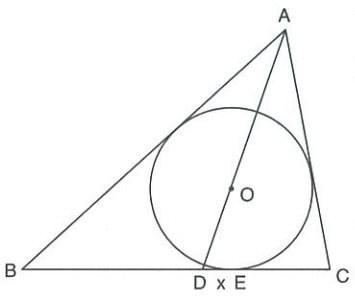
7.



ABCD dik yamuk
ABCD right trapezoid
|BF| = 2 br
|DK| = 3 br
⇒ |FC| = x = ?

A) 2,5 B) 3 C) 4 D) 4,5 E) 5

8.

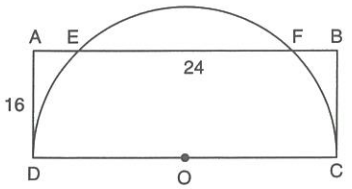


O merkezli çember
A circle with a center O
|AB| = 9 br
|AC| = 7 br
|BC| = 8 br
⇒ |DE| = x = ?

A) $\frac{1}{2}$ B) $\frac{3}{4}$ C) $\frac{4}{5}$ D) 1 E) $\frac{5}{4}$

PUZA YAYINLARI

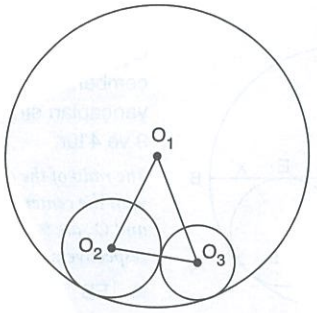
9.



ABCD dikdörtgen
ABCD rectangle
O merkezli yarım çemberin yarıçapı r
Radius r of a semi circle with a center O
|EF| = 24 br
|AD| = 16 br
⇒ r = ?

A) 20 B) 16 C) 15 D) 12 E) 9

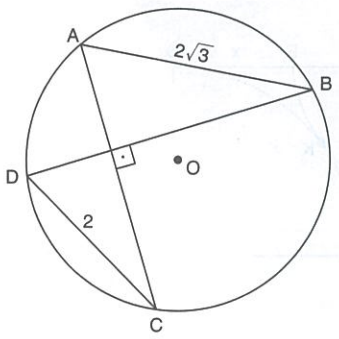
10.



O_1, O_2 ve O_3 merkezli çemberlerin yarıçapları sırasıyla r_1, r_2, r_3 tür.
The radii of the circles with the centers O_1, O_2 and O_3 are r_1, r_2, r_3 respectively.
Ç($O_1O_2O_3$) = 24 br
⇒ r_1 = ?

A) 6 B) 9 C) 12 D) 15 E) 24

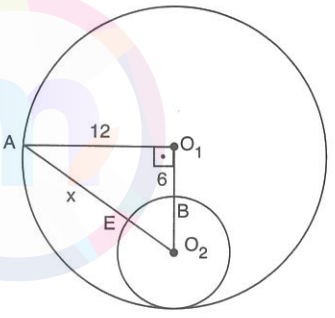
11.



O merkezli çemberin yarıçapı r
Radius r of a circle with a center O
|AB| = $2\sqrt{3}$ br
|DC| = 2 br
⇒ r = ?

A) 1 B) 2 C) $2\sqrt{2}$ D) $2\sqrt{3}$ E) 4

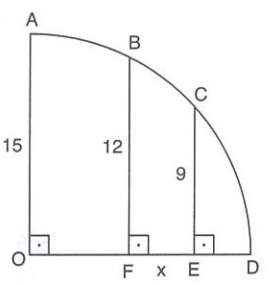
12.



O_1 ve O_2 merkezli çemberler
Circles with the centers O_1 and O_2
|O_1B| = 6 br
|O_1A| = 12 br
⇒ |AE| = x = ?

A) 3 B) 6 C) 9 D) 10 E) 12

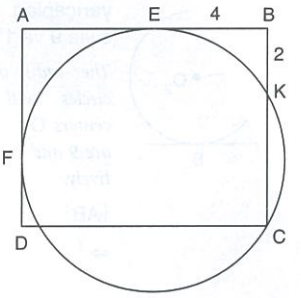
13.



O merkezli çeyrek çember
A quarter circle with a center O
[AO] ⊥ [OD]
[BF] ⊥ [OD]
[CE] ⊥ [OD]
|AO| = 15 br
|BF| = 12 br
|CE| = 9 br
⇒ |FE| = x = ?

A) 1 B) 3 C) 6 D) 7 E) 9

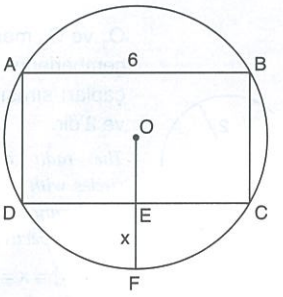
14.



ABCD dikdörtgen
ABCD rectangle
|EB| = 4 br
|BK| = 2 br
⇒ A(ABCD) = ?

A) 81 B) 72 C) 63 D) 54 E) 48

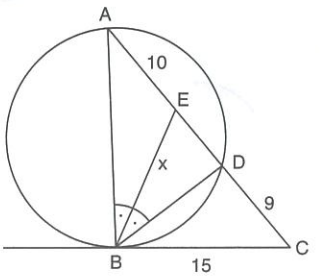
15.



O merkezli çember
A circle with a center O
ABCD kare
ABCD square
|AB| = 6 br
⇒ |EF| = x = ?

A) $3\sqrt{6}$ B) $3\sqrt{2}$ C) 3
D) $3-3\sqrt{2}$ E) $3\sqrt{2}-3$

16.

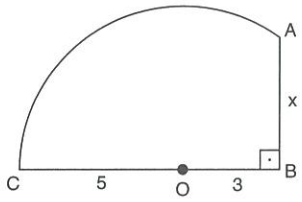


[AB] çap
[AB]diameter
m(ÂBE) = m(ÊBD)
|AE| = 10 br
|DC| = 9 br
|BC| = 15 br
⇒ |EB| = x = ?

A) 3 B) 6 C) $6\sqrt{5}$ D) 12 E) $12\sqrt{5}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



O merkezli çember

Circle with a center O

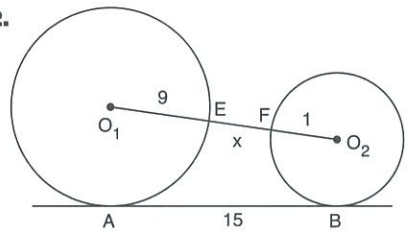
$|OB| = 3$ br

$|OC| = 5$ br

$\Rightarrow |AB| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 8

2.



O_1 ve O_2 merkezli çemberlerin yarıçapları sırasıyla 9 ve 1'dir.

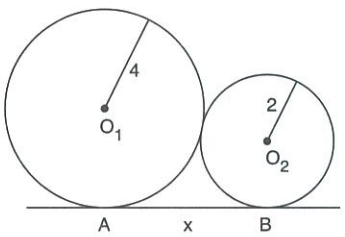
The radii of the circles with the centers O_1 and O_2 are 9 and 1 respectively.

$|AB| = 15$ br

$\Rightarrow |EF| = x = ?$

A) 10 B) 8 C) 7 D) 6 E) 5

3.



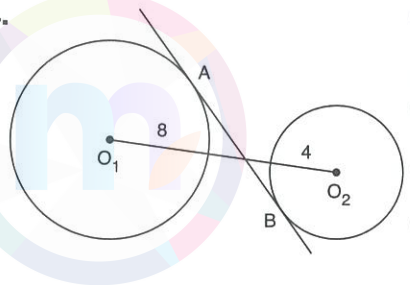
O_1 ve O_2 merkezli çemberlerin yarıçapları sırasıyla 4 ve 2'dir.

The radii of the circles with the centers O_1 and O_2 are 4 and 2 respectively.

$\Rightarrow |AB| = x = ?$

A) 5 B) $4\sqrt{2}$ C) 6 D) $4\sqrt{3}$ E) 8

4.



O_1 ve O_2 merkezli çemberlerin yarıçapları sırasıyla 8 ve 4'tür.

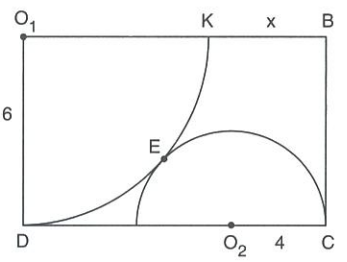
The radii of the circles with the centers O_1 and O_2 are 8 and 4 respectively.

$|AB| = 9$ br

$\Rightarrow |O_1O_2| = ?$

A) 15 B) 12 C) 9 D) 8 E) 6

5.



O_1BCD dikdörtgen

O_1BCD rectangle

O_1 ve O_2 merkezli çemberler

Circles with the centers O_1 and O_2

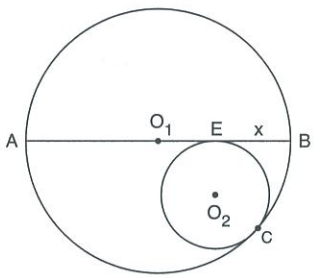
$|O_1D| = 6$ br

$|O_2C| = 4$ br

$\Rightarrow |KB| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

6.



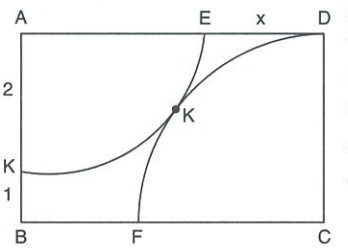
O_1 ve O_2 merkezli çemberlerin yarıçapları sırasıyla 9 ve 4'tür.

The radii of the circles with the centers O_1 and O_2 are 9 and 4 respectively.

$\Rightarrow |EB| = x = ?$

A) 7 B) 6 C) 5 D) 4 E) 3

7.



A ve C merkezli çeyrek çemberler

quarter circles with the centers A and C

ABCD dikdörtgen

ABCD rectangle

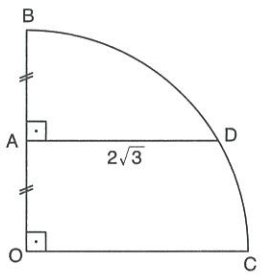
$|AK| = 2$ br

$|KB| = 1$ br

$\Rightarrow |ED| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

8.



O merkezli çeyrek çemberin yarıçapı r

Radius r of a quarter circle with a center O

$|BA| = |AO|$

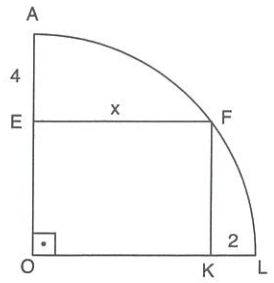
$|BA| = 2\sqrt{3}$ br

$\Rightarrow r = ?$

A) $4\sqrt{3}$ B) 6 C) 4 D) $2\sqrt{3}$ E) 2

PUZA YAYINLARI

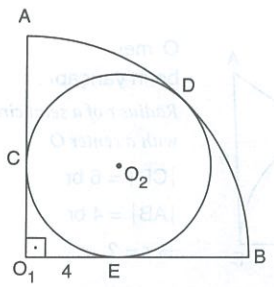
9.



O merkezli çember
Circle with a center O
EFKO dikdörtgen
EFKO rectangle
$|AE| = 4$ br
$|KL| = 2$ br
$\Rightarrow |EF| = x = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

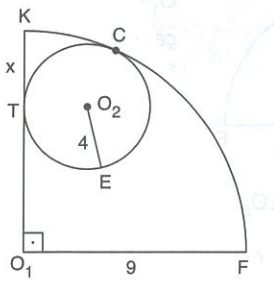
10.



O_1 ve O_2 merkezli çemberlerin yarıçapları sırasıyla r_1 ve r_2 dir.
The radii of the circles with the centers O_1 and O_2 are r_1 and r_2 respectively.
$|O_1E| = 4$ br
$\Rightarrow r_2 = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 8

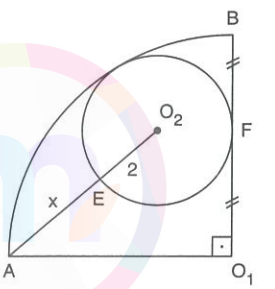
11.



O_1 ve O_2 merkezli çemberler
Circles with the centers O_1 and O_2
$|O_2E| = 4$ br
$|O_1F| = 9$ br
$\Rightarrow |TK| = x = ?$

A) 2 B) 4 C) 6 D) 7 E) 8

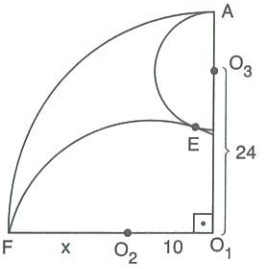
12.



O_1 ve O_2 merkezli çemberler
Circles with the centers O_1 and O_2
$|BF| = |FO_1|$
$|O_2E| = 2$ br
$\Rightarrow |EA| = x = ?$

A) $\frac{2\sqrt{41}}{3} - 2$ B) $2\sqrt{41} - 4$ C) $\sqrt{41} - 4$ D) 4 E) 8

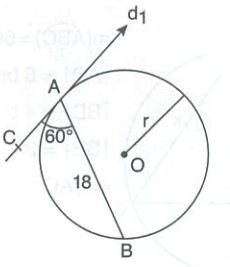
13.



O_1, O_2, O_3 merkezli çemberler
Circles with the centers O_1, O_2 and O_3
$|O_1O_3| = 24$ br
$|O_1O_2| = 10$ br
$\Rightarrow |O_2F| = x = ?$

A) 6 B) 10 C) 14 D) 16 E) 20

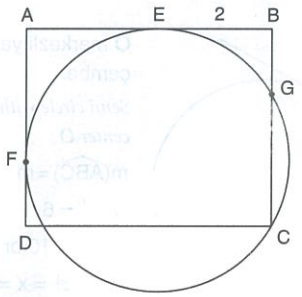
14.



$m(\widehat{CAB}) = 60°$
O merkezli çember
A circle with a center O
$|AB| = 18$ br
d_1, A noktasında teğet
d_1 is tangent at point A
$\Rightarrow r = ?$

A) $6\sqrt{3}$ B) $4\sqrt{3}$ C) $2\sqrt{3}$ D) 4 E) 6

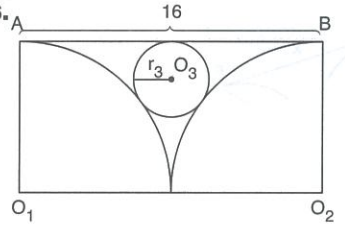
15.



ABCD dikdörtgen
ABCD rectangle
$|BC| = 4$ br
$|EB| = 2$ br
$\Rightarrow A(ABCD) = ?$

A) 36 B) 24 C) 18 D) 9 E) 4,5

16.

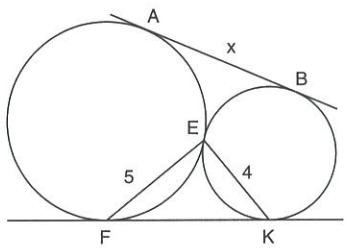


O_1, O_2 ve O_3 merkezli çemberler
Circles with the centers O_1, O_2 and O_3
ABO_2O_1 dikdörtgen
ABO_2O_1 rectangle
$|AB| = 16$ br
$\Rightarrow r_3 = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



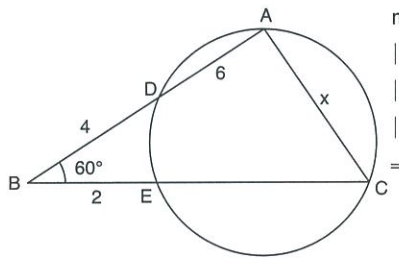
$|EF| = 5$ br

$|EK| = 4$ br

$\Rightarrow |AB| = x = ?$

A) 1 B) 3 C) 5 D) $\sqrt{41}$ E) 9

2.



$m(\widehat{ABC}) = 60°$

$|AD| = 6$ br

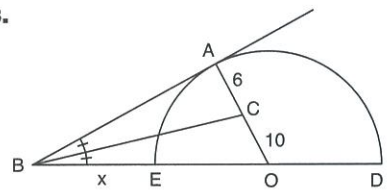
$|BD| = 4$ br

$|BE| = 2$ br

$\Rightarrow |AC| = x = ?$

A) 10 B) $10\sqrt{3}$ C) $10\sqrt{2}$ D) 20 E) $20\sqrt{3}$

3.



O merkezli yarım çember

Semi circle with a center O

$m(\widehat{ABC}) = m(\widehat{CBD})$

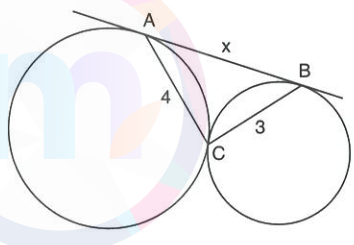
$|AC| = 6$ br

$|CO| = 10$ br

$\Rightarrow |BE| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

4.



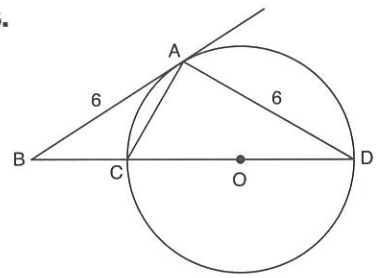
$|AC| = 4$ br

$|BC| = 3$ br

$\Rightarrow |AB| = x = ?$

A) 2 B) $2\sqrt{2}$ C) 3 D) $3\sqrt{2}$ E) 5

5.



O merkezli çemberin yarıçapı r

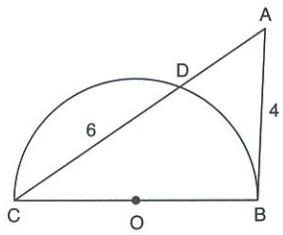
Radius r of a circle with a center O

$|AB| = |AD| = 6$ br

$\Rightarrow r = ?$

A) 2 B) $2\sqrt{3}$ C) 3 D) 6 E) $4\sqrt{3}$

6.



O merkezli yarım çemberin yarıçapı r

Radius r of a semi circle with a center O

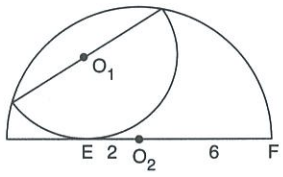
$|CD| = 6$ br

$|AB| = 4$ br

$\Rightarrow r = ?$

A) $\sqrt{3}$ B) $2\sqrt{3}$ C) 4 D) 6 E) $6\sqrt{3}$

7.



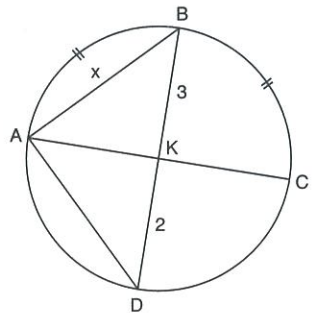
O_1 ve O_2 merkezli çemberlerin yarıçapları sırasıyla r_1 ve r_2'dir.

The radii of the circles with the centers O_1 and O_2 are r_1 and r_2 respectively.

$|O_2F| = 6$ br $|EO_2| = 2$ br $\Rightarrow r_1 = ?$

A) 3 B) 4 C) $2\sqrt{5}$ D) $3\sqrt{3}$ E) $4\sqrt{3}$

8.



$m(\widehat{AB}) = m(\widehat{BC})$

$|BK| = 3$ br

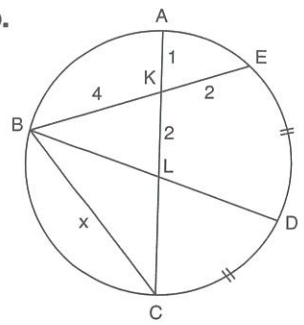
$|KD| = 2$ br

$\Rightarrow |AB| = x = ?$

A) $\frac{3\sqrt{15}}{2}$ B) $\sqrt{15}$ C) 3 D) $\sqrt{6}$ E) $\frac{\sqrt{6}}{2}$

PUZA YAYINLARI

9.



$m(\widehat{ED}) = m(\widehat{DC})$

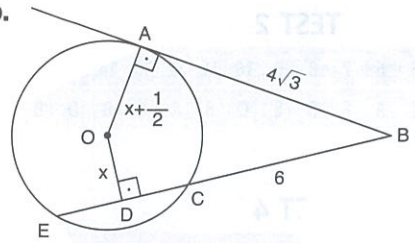
$2|AK| = |KL| = |KE| = 2$ br

$|BK| = 4$ br

$\Rightarrow |BC| = x = ?$

A) 12 B) 10 C) 8 D) 6 E) 4

10.



O merkezli çember

Circle with a center O

$|AB| = 4\sqrt{3}$ br

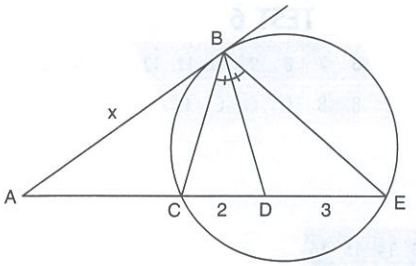
$|BC| = 6$ br

$|AO| = x + \frac{1}{2}$

$\Rightarrow |OD| = x = ?$

A) $\frac{3}{4}$ B) 2 C) $\frac{5}{2}$ D) 3 E) $\frac{7}{2}$

11.

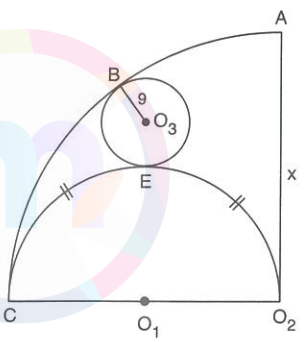


$m(\widehat{CBD}) = m(\widehat{DBE})$ $|CD| = 2$ br $|DE| = 3$ br

$\Rightarrow |AB| = x = ?$

A) $\frac{5}{3}$ B) $\frac{5}{2}$ C) $\frac{10}{3}$ D) $4\sqrt{2}$ E) 6

12.



O_1, O_2, O_3 merkezli çemberler

Circles with the centers O_1, O_2 and O_3

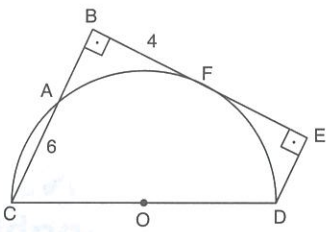
$|O_3B| = 9$ br

$m(\widehat{CE}) = m(\widehat{EO_2})$

$\Rightarrow |AO_2| = x = ?$

A) 12 B) 15 C) 24 D) 27 E) 54

13.



O merkezli yarım çember

Semi circle with a center O

$[CB] \perp [BE]$

$[BE] \perp [ED]$

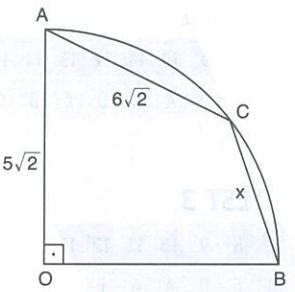
$|AC| = 6$ br

$|BF| = 4$ br

$\Rightarrow A(BCDE) = ?$

A) 64 B) 48 C) 40 D) 38 E) 36

14.



O merkezli çeyrek çember

A quarter circle with a center O

$[AO] \perp [BO]$

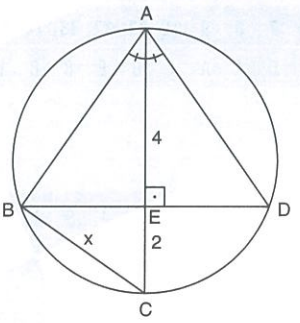
$|AC| = 6\sqrt{2}$ br

$|AO| = 5\sqrt{2}$ br

$\Rightarrow |BC| = x = ?$

A) 1 B) 2 C) $2\sqrt{2}$ D) 4 E) $4\sqrt{2}$

15.



$m(\widehat{BAC}) = m(\widehat{CAD})$

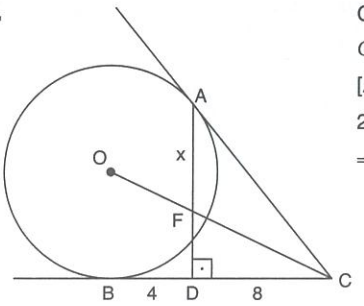
$[AC] \perp [BD]$

$|AE| = 2|EC| = 4$ br

$\Rightarrow |BC| = x = ?$

A) 6 B) 4 C) $2\sqrt{3}$ D) $2\sqrt{2}$ E) 2

16.



O merkezli çember

Circle with a center O

$[AD] \perp [BC]$

$2|BD| = |DC| = 8$ br

$\Rightarrow |AF| = x = ?$

A) $12\sqrt{5}$ B) $8\sqrt{5}$ C) $4\sqrt{5}$ D) $\frac{12\sqrt{5}}{5}$ E) $\sqrt{5}$

PUZA YAYINLARI

ÇEMBERDE UZUNLUK LENGTH IN CIRCLE

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	E	D	E	B	A	C	C	D	A	D	D	C	B	C	B

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	A	B	A	C	A	E	B	E	C	B	A	C	B	D	B

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	E	A	B	E	B	B	C	D	A	A	E	B	D	D	C

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	C	B	C	C	D	E	B	B	B	D	A	D	B	C	C

TEST 5

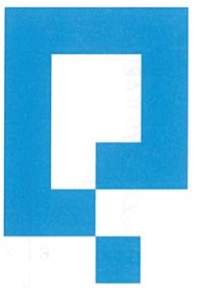
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	D	C	C	C	D	A	A	C	B	E	B	B	E	C

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	B	A	E	B	B	C	C	C	C	A	E	A	C	B

TEST 7

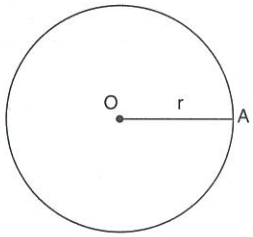
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	B	E	B	B	B	B	A	A	E	E	C	B	C	D



DAİREDE ALAN

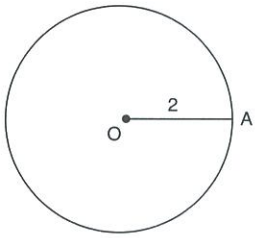
AREA IN CIRCULAR REGION

ÖZELLİK|Property 1



Çemberin Çevresi = $2\pi r$
Circumference of a circle = $2\pi r$

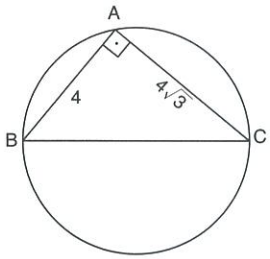
1.



⇒ O merkezli çemberin çevresi = ?
Circumference of a circle with a center O = ?

4π

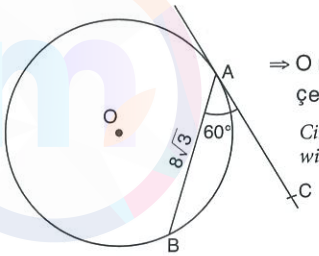
2.



⇒ Çemberin Çevresi = ?
Circumference of a circle = ?

8π

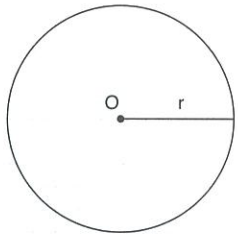
3.



⇒ O merkezli çemberin çevresi = ?
Circumference of a circle with a center O = ?

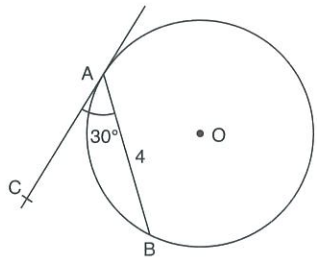
16π

ÖZELLİK|Property 2



Dairenin Alanı = πr^2
Area of a circular region = πr^2

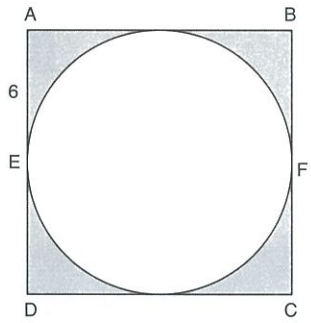
1.



⇒ Dairenin Alanı = ?
Area of a circular region = ?

16π

2.

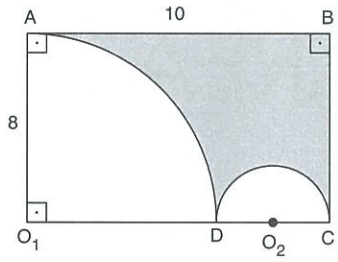


ABCD kare
ABCD square

⇒ Taralı Alan = ?
Shaded area = ?

$144 - 36\pi$

3.

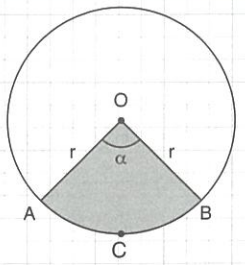


⇒ Taralı Alan = ?
Shaded area = ?

$80 - \frac{33}{2}\pi$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

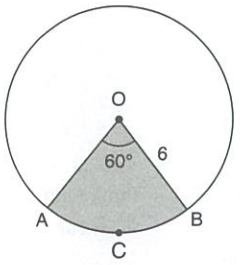
ÖZELLİK|Property 3



Taralı Alan $= \pi r^2 \cdot \frac{\alpha}{360°}$
Shaded area

$|\overset{\frown}{ACB}| = 2\pi r \cdot \frac{\alpha}{360°}$

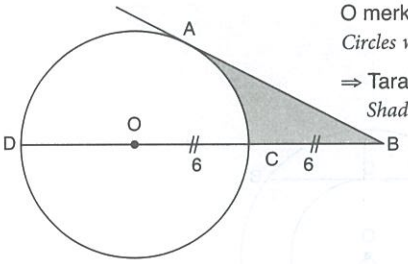
1.



O merkezli çember
Circles with a center O
⇒ Taralı Alan = ?
Shaded area = ?
⇒ $|\overset{\frown}{ACB}| = ?$

$6\pi,\ 2\pi$

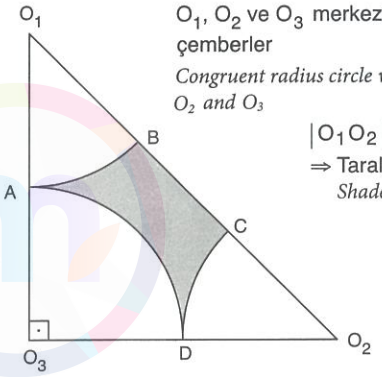
2.



O merkezli çember
Circles with a center O
⇒ Taralı Alan = ?
Shaded area = ?

$18\sqrt{3} - 6\pi$

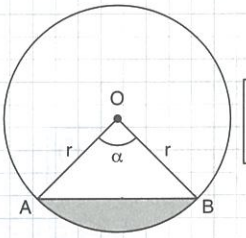
3.



O_1, O_2 ve O_3 merkezli eşit yarıçaplı çemberler
Congruent radius circle with centers of O_1, O_2 and O_3
$|O_1O_2| = 8\sqrt{2}$ br
⇒ Taralı Alan = ?
Shaded area = ?

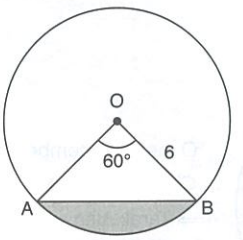
$32 - 8\pi$

ÖZELLİK|Property 4



Taralı Alan $= \pi r^2 \frac{\alpha}{360} - \frac{1}{2} \cdot r^2 \cdot \sin\alpha$
Shaded area

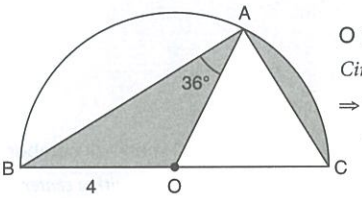
1.



O merkezli çember
Circles with a center O
⇒ Taralı Alan = ?
Shaded area = ?

$6\pi - 9\sqrt{3}$

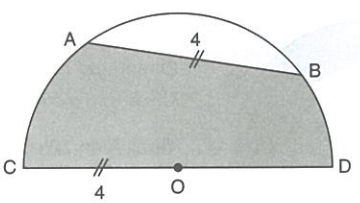
2.



O merkezli çember
Circles with a center O
⇒ Taralı Alan = ?
Shaded area = ?

$\frac{16}{5}\pi$

3.

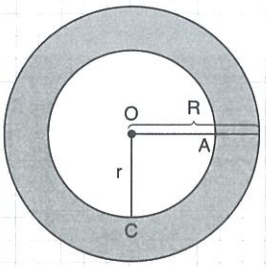


O merkezli çember
Circles with a center O
⇒ Taralı Alan = ?
Shaded area = ?

$\frac{16\pi}{3} + 4\sqrt{3}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

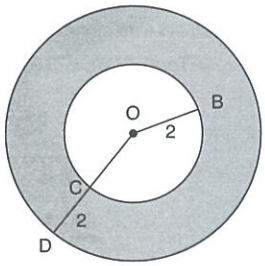
ÖZELLİK|Property 5



O merkezli çember
Circle with a center O

Taralı Alan = $\pi(R^2 - r^2)$
Shaded area

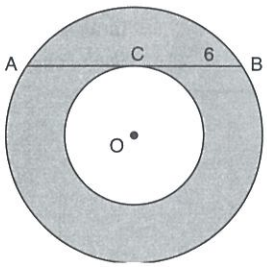
1.



O merkezli çember
Circle with a center O
⇒ Taralı Alan = ?
Shaded area = ?

12π

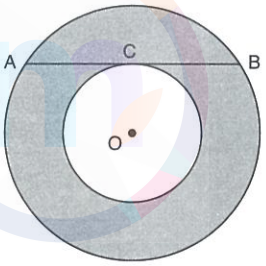
2.



O merkezli çember
Circle with a center O
⇒ Taralı Alan = ?
Shaded area = ?

36π

3.



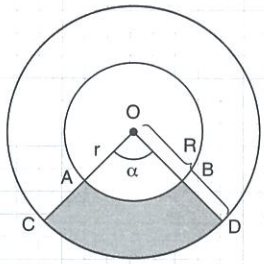
O merkezli çember
Circle with a center O

Taralı Alan 72π br^2
Shaded area 72π *br*^{2}
⇒ |ABI = ?

$12\sqrt{2}$

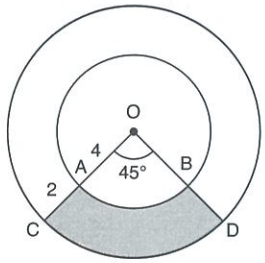
PUZA YAYINLARI

ÖZELLİK|Property 6



Taralı Alan $= \pi(R^2 - r^2)\frac{\alpha}{360°}$
Shaded area

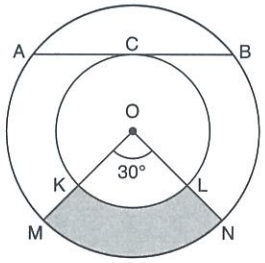
1.



⇒ Taralı Alan = ?
Shaded area = ?

$\frac{5\pi}{2}$

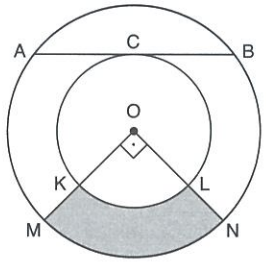
2.



|AB| = 12 br
⇒ Taralı Alan = ?
Shaded area = ?

3π

3.



Taralı Alan 45π br^2
Shaded area 45π *br*^{2}
⇒ |ABI = ?

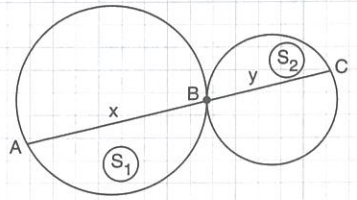
$12\sqrt{5}$

PUZA YAYINLARI

PUZA YAYINLARI

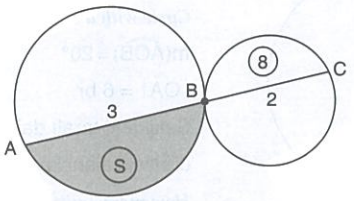
PUZA YAYINLARI

ÖZELLİK|Property 7



$$\left(\frac{x}{y}\right)^2 = \frac{S_1}{S_2}$$

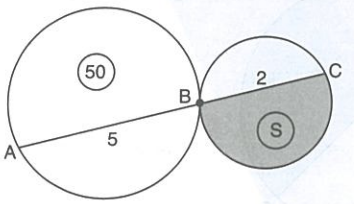
1.



$\Rightarrow S = ?$

18

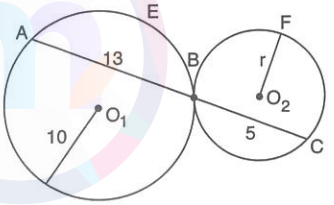
2.



$\Rightarrow S = ?$

8

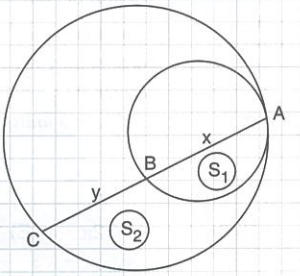
3.



$\Rightarrow r = ?$

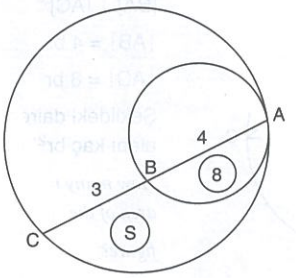
$\frac{50}{13}$

ÖZELLİK|Property 8



$$\left(\frac{x}{x+y}\right)^2 = \frac{S_1}{S_1+S_2}$$

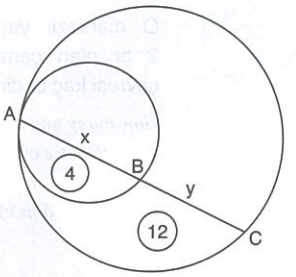
1.



$\Rightarrow S = ?$

$\frac{33}{2}$

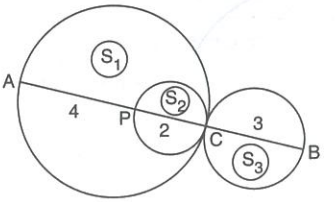
2.



$\Rightarrow \frac{x}{y} = ?$

1

3.

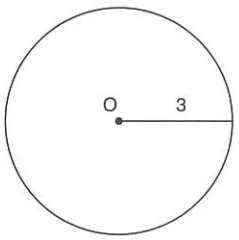


$\Rightarrow \frac{S_1+S_3}{S_2} = ?$

$\frac{41}{4}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.

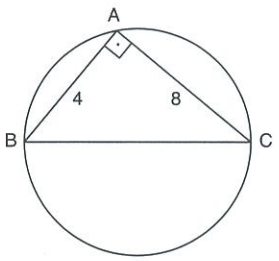


O merkezli yarıçapı 3 br olan dairenin alanı kaç br^2'dir?

How many $unit^2$ is the area of the circle with a center of O, having an radius of 3 units?

A) 3π B) 6π C) 9π D) 12π E) 15π

2.



[BA] ⊥ [AC]

|AB| = 4 br

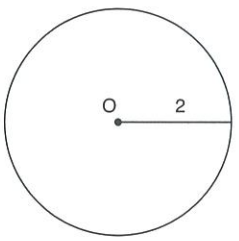
|AC| = 8 br

Şekildeki dairenin alanı kaç br^2'dir?

How many $unit^2$ is the area of the circle in the figure?

A) 10π B) 12π C) 15π D) 20π E) 25π

3.

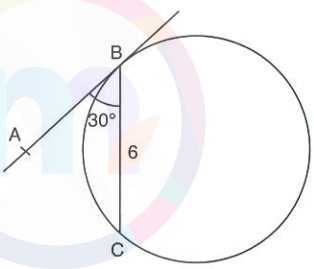


O merkezli yarıçapı 2 br olan çemberin çevresi kaç br'dir?

How many unit is the circumference of the circle with a center O, having an radius of 2 units?

A) 2π B) 4π C) 6π D) 8π E) 10π

4.



$m(\widehat{ABC}) = 30°$

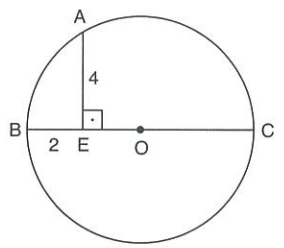
|BC| = 6 br

Şekildeki çemberin çevresi kaç br'dir?

How many unit is the circumference of the circle in figure?

A) 3π B) 6π C) 8π D) 12π E) 16π

5.



[AE] ⊥ [BC]

|AE| = 4 br

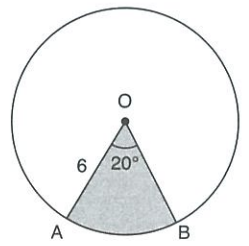
|BE| = 2 br

O merkezli çemberin çevresi kaç br'dir?

How many unit is the circumference of the O circle?

A) 6π B) 8π C) 10π D) 12π E) 14π

6.



O merkezli çember

Circle with a center O

$m(\widehat{AOB}) = 20°$

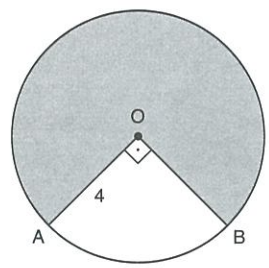
|OA| = 6 br

Şekildeki taralı daire diliminin alanı kaç br^2'dir?

How many $unit^2$ is the shaded slice of the circle in the figure?

A) π B) 2π C) 4π D) 5π E) 6π

7.



O merkezli çember

Circle with a center O

[AO] ⊥ [OB]

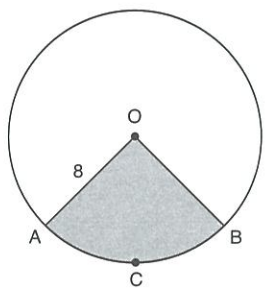
|AO| = 4 br

Şekildeki taralı daire diliminin alanı kaç br^2'dir?

How many $unit^2$ is the shaded slice of the circle in the figure?

A) 2π B) 4π C) 8π D) 12π E) 16π

8.



O merkezli çemberin yarıçapı 8 br

A circle with a center O, has a radius of 8 units:

$|\widehat{ACB}| = 2\pi$

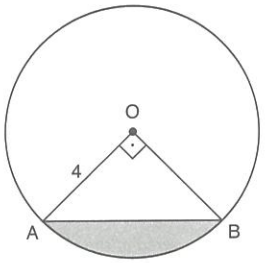
Şekildeki taralı daire diliminin alanı kaç br^2'dir?

How many $unit^2$ is the shaded slice of the circle in figure?

A) 4π B) 6π C) 8π D) 12π E) 14π

PUZA YAYINLARI

9.



O merkezli çemberin yarıçapı 4 br

A circle with a center O, has a radius of 4 units

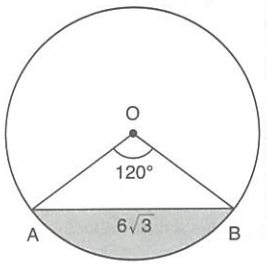
[AO] ⊥ [OB]

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $4\pi - 8$ B) $4\pi - 4$ C) $4\pi + 4$ D) 8π E) 12π

10.



O merkezli çember

Circle with a center O

$m(\widehat{AOB}) = 120°$

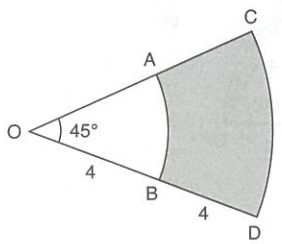
$|AB| = 6\sqrt{3}$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $6\pi - 9\sqrt{3}$ B) $12\pi - 9\sqrt{3}$ C) $6\pi + 3\sqrt{3}$ D) 9π E) 12π

11.



O merkezli çember yayları

Arc of circumference with a center O

$m(\widehat{COD}) = 45°$

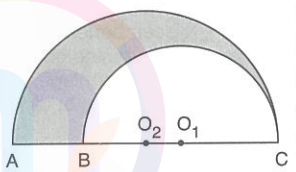
$|OB| = |BD| = 4$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 4π B) 6π C) 8π D) 10π E) 12π

12.



O_1 ve O_2 merkezli yarım çemberler

Semi-circles with O_1 and O_2 center points

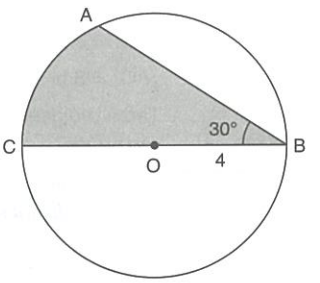
$2|AB| = |BC| = 8$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 5π B) 8π C) 10π D) 16π E) 20π

13.



O merkezli çemberin yarıçapı 4 br

A circle with a center O, has a radius of 4 units

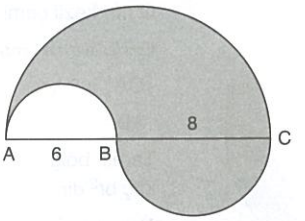
$m(\widehat{ABC}) = 30°$

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $8\pi - 4\sqrt{3}$ B) $\frac{40\pi}{3} - 4\sqrt{3}$ C) $\frac{40\pi}{3} + 2\sqrt{3}$ D) $16\pi - 2\sqrt{3}$ E) $\frac{8\pi}{3} + 4\sqrt{3}$

14.



Şekildeki gibi üç yarım daire iç içedir.

Three semi-circles are nested as in figure

$|AB| = 6$ br

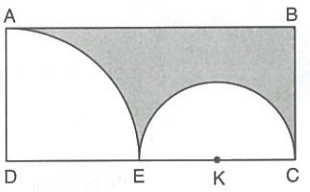
$|BC| = 8$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 12π B) 16π C) 18π D) 20π E) 28π

15.



ABCD dikdörtgen, D ve K merkezli çemberler

A rectangle of ABCD, circles with the centers of D and K

$|DE| = 4$ br

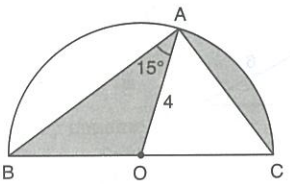
$|EC| = 6$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $24 - 7\pi$ B) $40 - \frac{17\pi}{2}$ C) $20 - 4\pi$ D) $40 - 4\pi$ E) $20 + 4\pi$

16.



O merkezli yarım çember

Semi-circle with a center O

$|AO| = 4$ br

$m(\widehat{BAO}) = 15°$

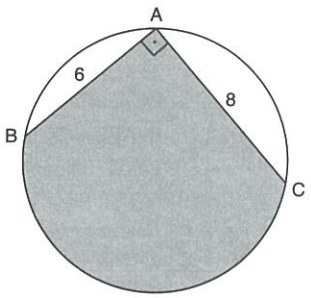
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) π B) $\frac{4}{3}\pi$ C) $\frac{3\pi}{2}$ D) 2π E) $\frac{7\pi}{3}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



[BA] ⊥ [AC]

|AB| = 6 br

|AC| = 8 br

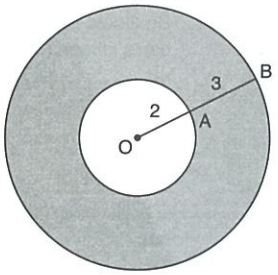
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 10 B) 24 C) 25π

D) $\frac{25\pi}{2}+24$ E) 25π + 24

2.



O merkezli çemberler

Circles with a center O

|OA| = 2 br

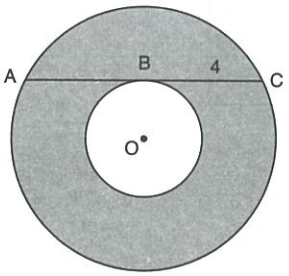
|AB| = 3 br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) π B) 4π C) 9π D) 21π E) 25π

3.



O merkezli çemberler

Circles with a center O

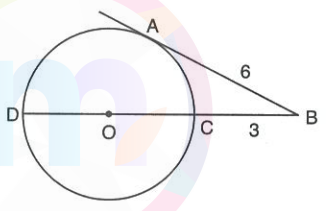
|BC| = 4 br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 4π B) 8π C) 16π D) 32π E) 64π

4.



O merkezli çember

Circles with a center O

|AB| = 2|BC| = 6 br

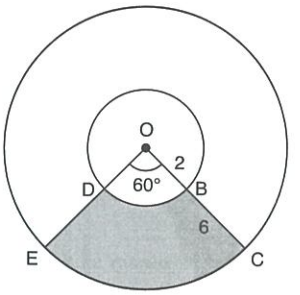
Çemberin çevresi kaç br'dir?

How many unit is the circumference of the circle?

A) 144π B) 81π C) 36π D) $\frac{81\pi}{4}$ E) 9π

PUZA YAYINLARI

5.



O merkezli çemberler

Circles with a center O

3|OB| = |BC| = 6 br

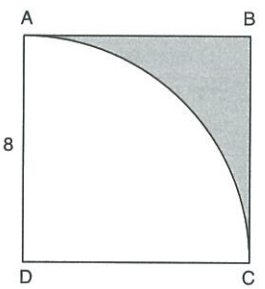
m(EOC) = 60°

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 10π B) $\frac{17\pi}{2}$ C) 8π D) $\frac{15\pi}{2}$ E) 6π

6.



D merkezli çeyrek çember

A quarter circle with a center D

ABCD kare

ABCD square

|AD| = 8 br

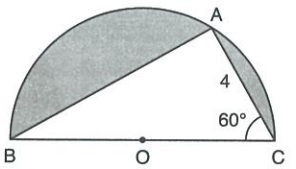
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 64 – 16π B) 16π – 32 C) 32 – 8π

D) 16π + 64 E) 64π + 16

7.



O merkezli yarım çember

Semi-circle with a center O

m(ACB) = 60°

|AC| = 4 br

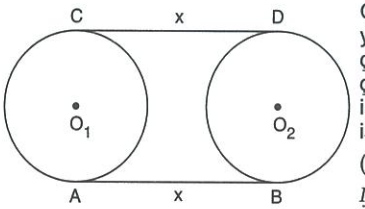
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $8\pi-8\sqrt{3}$ B) $8\pi-4\sqrt{3}$ C) 4π

D) 4π + 4 E) 8π

8.



O_1 ve O_2 merkezli yarıçapları 3 br olan çemberlerin çevresine gerilmiş ipin uzunluğu 30 br ise x kaç br'dir?

(π = 3)

If the length of a thread which is surrounded on circles with a radius of 3 units, having centers of O_1, O_2 is 30 units, then how many unit is x?

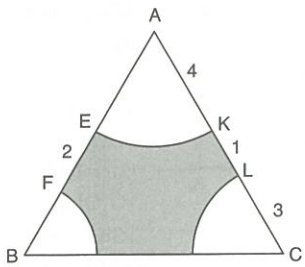
A) 4 B) 5 C) 6 D) 7 E) 8

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

9.



ABC eşkenar üçgen

ABC equilateral triangle

A, B, C merkezli daire dilimleri

Slices of circle with the centers of A, B, C.

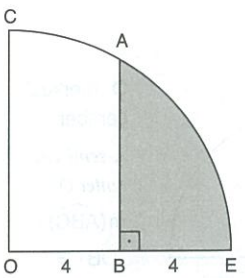
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $16\sqrt{3} - \frac{29\pi}{6}$ B) $8\sqrt{3} - 4\pi$ C) $16\sqrt{3} - \frac{21\pi}{2}$

D) $2\sqrt{3}$ E) $16\sqrt{3}$

10.



O merkezli çeyrek çember

A quarter circle with a center O

$[AB] \perp [OE]$

$|OB| = |BE| = 4$ br

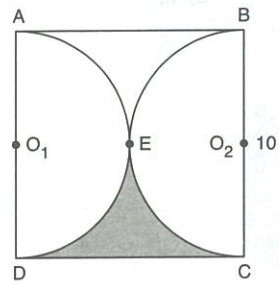
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $\frac{7\pi}{3} - 8$ B) $\frac{4\pi}{3} - 4$ C) $\frac{4\pi}{3} + 8\sqrt{3}$

D) $\frac{8\pi}{3} + 8$ E) $\frac{32\pi}{3} - 8\sqrt{3}$

11.



O_1 ve O_2 merkezli yarım çemberler

Semi-circles with O_1 and O_2 center points

ABCD kare

ABCD square

$|BC| = 10$ br

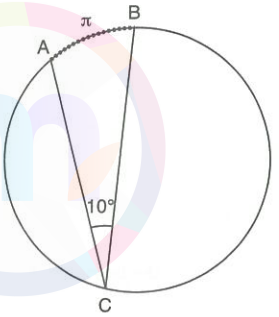
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 100 B) $50 - 5\pi$ C) 25π

D) $100 - 25\pi$ E) $50 - \frac{25\pi}{2}$

12.



$|\widehat{AB}| = \pi$

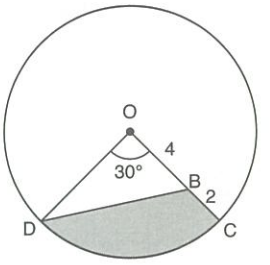
$m(\widehat{ACB}) = 10°$

Şekildeki dairenin alanı kaç br²'dir?

How many unit² is the area of the circle in the figure?

A) 3 B) 9π C) 9 D) 36π E) 81π

13.



O merkezli çember

Circles with a center O

$|OB| = 2|BC| = 4$ br

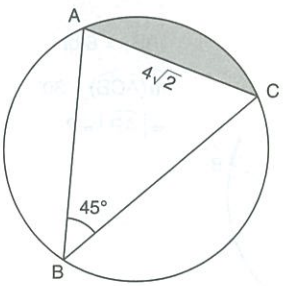
$m(\widehat{DOC}) = 30°$

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $3\pi - 6$ B) $3\pi - 2$ C) $6\pi - 2$ D) 3π E) 6π

14.



$m(\widehat{ABC}) = 45°$

$|AC| = 4\sqrt{2}$ br

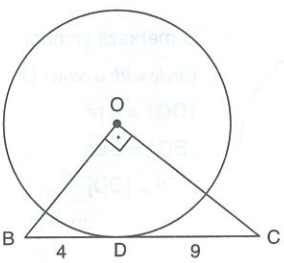
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $4\pi - 8$ B) $4\pi - 4$ C) $2\pi + 4$

D) $4\pi + 4$ E) $8\pi - 4$

15.



O merkezli çember

Circles with a center O

$[BO] \perp [OC]$

$|BD| = 4$ br

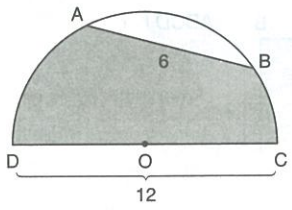
$|DC| = 9$ br

Şekildeki dairenin alanı kaç br²'dir?

How many unit² is the area of the circle in figure?

A) 12π B) 16π C) 20π D) 25π E) 36π

16.



O merkezli yarım çember

Semi-circle with a center O

$|AB| = 6$ br

$|DC| = 12$ br

Taralı bölgenin alanı kaç br²'dir?

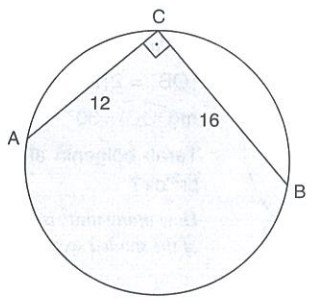
How many unit² is the area of the shaded sector?

A) $6\pi - 9\sqrt{3}$ B) $4\pi + 9\sqrt{3}$ C) $6\pi + 4\sqrt{3}$

D) $12\pi - 9\sqrt{3}$ E) $12\pi + 9\sqrt{3}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

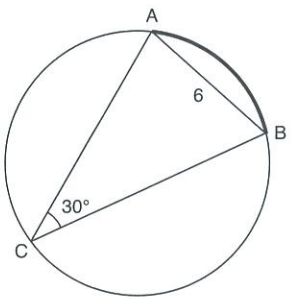
1.



[AC] ⊥ [CB]
|AC| = 12 br
|BC| = 16 br
⇒ Taralı Alan = ?

A) $40\pi + 90$ B) $40\pi + 96$ C) $20\pi - 96$
D) $50\pi + 96$ E) $28\pi - 80$

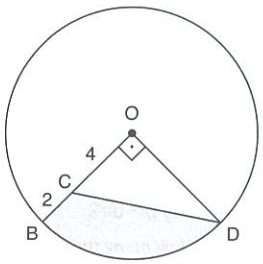
2.



|AB| = 6 br
$m(\widehat{ACB}) = 30°$
$\Rightarrow |\widehat{AB}| = ?$

A) π B) 2π C) $\frac{5\pi}{2}$ D) 4π E) 5π

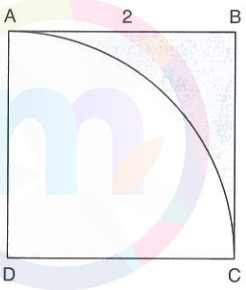
3.



O merkezli çember
Circle with a center O
|OC| = 4 br
|BC| = 2 br
[BO] ⊥ [OD]
⇒ Taralı Alan = ?
Shaded Area = ?

A) $6\pi + 6$ B) $9\pi + 12$ C) $9\pi - 12$
D) $8\pi - 12$ E) $6\pi - 6$

4.

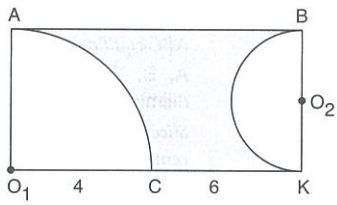


ABCD kare
ABCD square
D merkezli çeyrek çember
A quarter circle with a center D
|AB| = 2 br
⇒ Taralı Alan = ?
Shaded Area = ?

A) $2 - \pi$ B) $2 + \pi$ C) $\pi - 2$
D) $4 - \pi$ E) $4 + \pi$

PUZA YAYINLARI

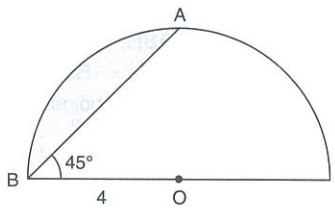
5.



$ABKO_1$ dikdörtgen
$ABKO_1$ rectangle
O_1 ve O_2 merkezli çemberler
Circles with O_1 and O_2 center points
$|O_1C| = 4$ br
|CK| = 6 br
⇒ Taralı Alan = ?
Shaded Area = ?

A) $40 - 6\pi$ B) $20 - 4\pi$ C) $40 - 5\pi$
D) $20 + 4\pi$ E) $80 - 6\pi$

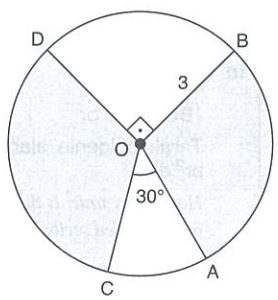
6.



O merkezli yarım çember
A semi circle with a center O
$m(\widehat{ABC}) = 45°$
|OB| = 4 br
⇒ Taralı Alan = ?
Shaded Area = ?

A) $2\pi + 4$ B) $2\pi - 4$ C) $4\pi + 4$
D) $4\pi - 4$ E) $4\pi - 8$

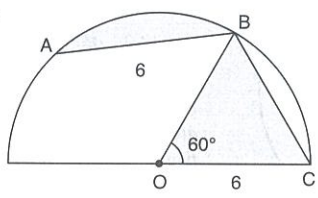
7.



O merkezli çember
A circle with a center O
$m(\widehat{COA}) = 30°$
[DO] ⊥ [OB]
|OB| = 3 br
⇒ Taralı Alan = ?
Shaded Area = ?

A) 2π B) 4π C) 6π D) 8π E) 16π

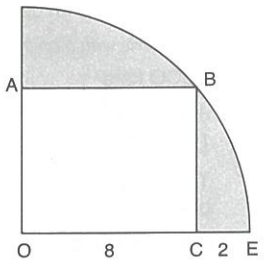
8.



O merkezli yarım çember
A semi circle with a center O
|AB| = |OC| = 6 br
$m(\widehat{BOC}) = 60°$
⇒ Taralı Alan = ?
Shaded Area = ?

A) π B) 2π C) $6\pi - 6\sqrt{3}$
D) 6π E) $6\pi + 6\sqrt{3}$

9.



ABCO dikdörtgen

ABCO rectangle

O merkezli çeyrek çember

A quarter circle with a center O

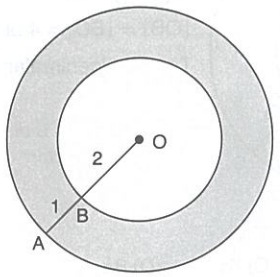
$|OC| = 8$ br

$|CE| = 2$ br

$\Rightarrow$ Taralı Alan = ?

A) $25\pi - 48$ B) $50\pi - 24$ C) $50\pi + 24$ D) $25\pi - 12$ E) $25\pi + 12$

10.



O merkezli çemberler

Circles with a center O

$|AB| = 1$ br

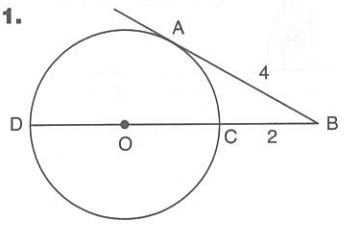
$|BO| = 2$ br

$\Rightarrow$ Taralı Alan = ?

Shaded Area = ?

A) 2π B) 3π C) 4π D) 5π E) 6π

11.



$|AB| = 4$ br

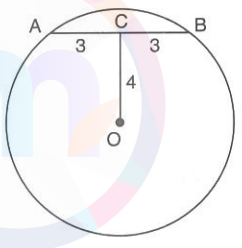
$|CB| = 2$ br

$\Rightarrow$ O merkezli dairenin alanı = ?

Area of a circular region with a center O = ?

A) π B) 4π C) 9π D) 16π E) 25π

12.



$|AC| = |CB| = 3$ br

$|CO| = 4$ br

$\Rightarrow$ O merkezli dairenin alanı = ?

Area of a circular region with a center O = ?

A) π B) 4π C) 9π D) 16π E) 25π

PUZA YAYINLARI

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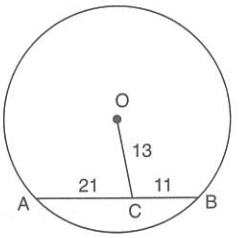
PUZA YAYINLARI

13.



$|OC| = 13$ br

$|AC| = 21$ br

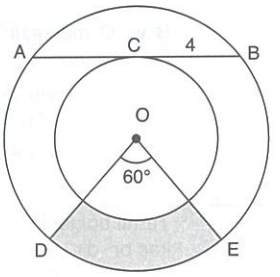
$|CB| = 11$ br

$\Rightarrow$ O merkezli dairenin alanı = ?

Area of a circular region with a center O = ?

A) 36π B) 64π C) 100π D) 164π E) 400π

14.



O merkezli çemberler

Circles with a center O

$|CB| = 4$ br

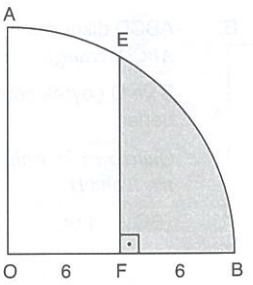
$m(\widehat{DOE}) = 60°$

$\Rightarrow$ Taralı Alan = ?

Shaded Area = ?

A) $\frac{\pi}{3}$ B) 2π C) $\frac{8\pi}{3}$ D) 4π E) 5π

15.



O merkezli çeyrek çember

A quarter circle with a center O

$|OF| = |BF| = 6$ br

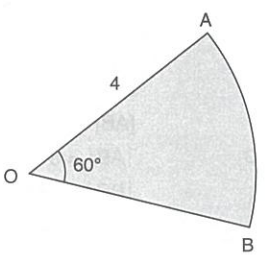
$[EF] \perp [OB]$

$\Rightarrow$ Taralı Alan = ?

Shaded Area = ?

A) $24\pi - \sqrt{3}$ B) $24\pi - 18\sqrt{3}$ C) $12\pi - 18\sqrt{3}$ D) $12\pi - 9\sqrt{3}$ E) $36\pi - 18\sqrt{3}$

16.



O merkezli çember

Circle with a center O

$|OA| = 4$ br

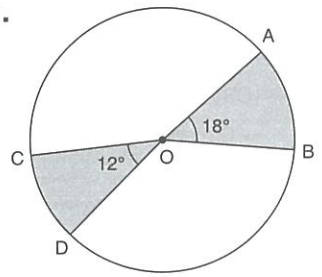
$m(\widehat{AOB}) = 60°$

$\Rightarrow$ Taralı Alan = ?

Shaded Area = ?

A) 2π B) 3π C) $\frac{8\pi}{3}$ D) $\frac{15\pi}{2}$ E) 10π

1.



O merkezli çemberin yarıçapı 6 br

A circle with a center O, has a radius of 6 units

$m(\widehat{AOB}) = 18°$

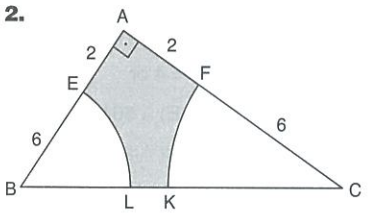
$m(\widehat{COD}) = 12°$

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) π B) 2π C) 3π D) 4π E) 6π

2.



B ve C merkezli çember dilimleri

Slice of circle with the centers of B and C

$|FC| = |EB| = 6$ br

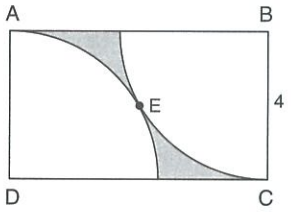
$|AE| = |AF| = 2$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) 23π B) 16π C) $32 - 9\pi$ D) $9\pi - 16$ E) $16\pi - 32$

3.



ABCD dikdörtgen

ABCD rectangle

B ve D çeyrek çemberler

Quarter circles with centers B and D

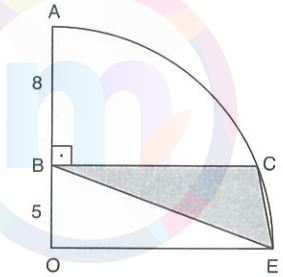
$|BC| = 4$ br

Taralı bölgenin alanı kaç br^2 dir?

How many unit^2 is the area of the shaded sector?

A) $8\pi - 16\sqrt{3}$ B) $8\pi - 8\sqrt{3}$ C) $8\sqrt{3} - 4\pi$ D) $16\pi - 16\sqrt{3}$ E) $16\sqrt{3} - 8\pi$

4.



O merkezli çeyrek çember

A quarter circle with a center O

$[AB] \perp [BC]$

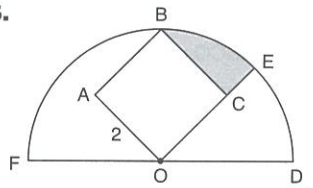
$|AB| = 8$ br

$|BO| = 5$ br

$\Rightarrow A(BCE) = ?$

A) 12 B) 15 C) 20 D) 24 E) 30

5.



O merkezli yarım çember

Semi-circle with a center O

ABCO kare

ABCD square

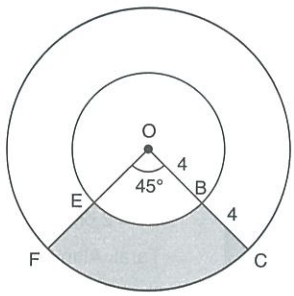
$|AO| = 2$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $\pi - 2$ B) π C) $\pi + 2$ D) $2\pi - 2$ E) 2π

6.



O merkezli çemberler

Circles with a center O

$m(\widehat{FOC}) = 45°$

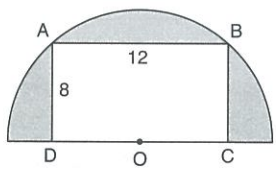
$|OB| = |BC| = 4$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) 4π B) 5π C) 6π D) 8π E) 10π

7.



O merkezli yarım çember

Semi-circle with a center O

ABCD dikdörtgen

ABCD rectangle

$|AB| = 12$ br

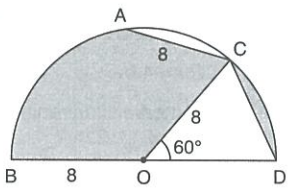
$|AD| = 8$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $50\pi + 96$ B) $25\pi + 96$ C) $100\pi - 96$ D) $25\pi - 16$ E) $50\pi - 96$

8.



O merkezli yarım çember

Semi-circle with a center O

$|AC| = |OC| = |BO| = 8$ br

$m(\widehat{COD}) = 60°$

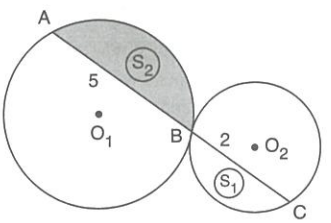
Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $\frac{32\pi}{3}$ B) 12π C) $\frac{64\pi}{3}$ D) 24π E) 32π

PUZA YAYINLARI

9.



O_1 ve O_2 merkezli çemberler dıştan teğettir.

Circles with O_1 and O_2 centers are externally tangent

$|AB| = 5$ br

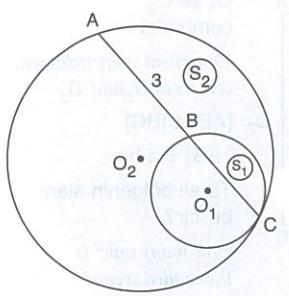
$|BC| = 2$ br

$S_1 = 8$ br^2

$\Rightarrow S_2 = ?$

A) 50 B) 40 C) 25 D) 20 E) 15

10.



O_1 ve O_2 merkezli çemberler içten teğettir.

Circles with O_1 and O_2 centers are internally tangent

$|AB| = 3$ br

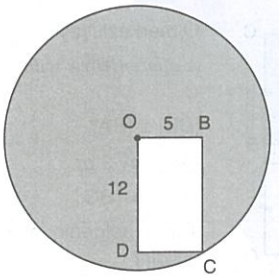
$|BC| = 1$ br

$S_1 = 4$ br^2

$\Rightarrow S_2 = ?$

A) 64 B) 60 C) 32 D) 28 E) 12

11.



O merkezli çember

A circles with a center O

OBCD dikdörtgen

OBCD rectangle

$|OB| = 5$ br

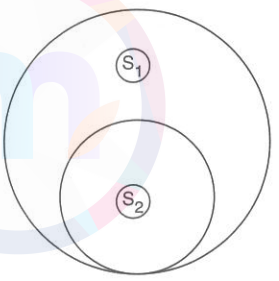
$|OD| = 12$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) 169π B) $169\pi - 30$ C) $169\pi - 60$ D) 69π E) $26\pi - 60$

12.



Çemberlerin çevreleri oranı $\frac{1}{2}$

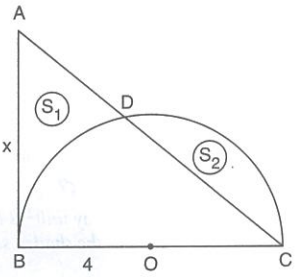
The ratio of the circumferences of the circles is 1/2

$S_1 = 9$ br^2

$\Rightarrow S_2 = ?$

A) 3 B) 4 C) 6 D) 8 E) 9

13.



O merkezli yarım çemberin yarıçapı 4 br

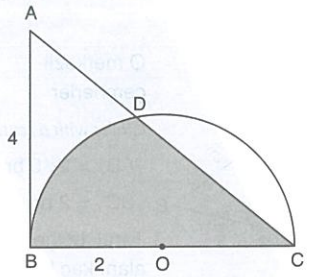
A Semi-circle with a center O, has a radius of 4 units

$S_1 = S_2$

$\Rightarrow |AB| = x = ?$

A) π B) 2π C) 3π D) 4π E) 5π

14.



O merkezli yarım çemberin yarıçapı 2 br

A Semi-circle with a center O, has a radius of 2 units

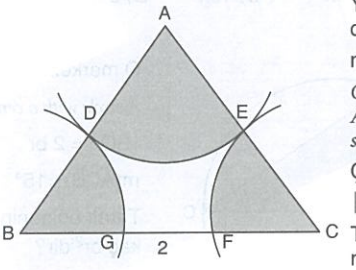
$|AB| = 4$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $\pi - 2$ B) π C) $2\pi - 2$ D) $\pi + 2$ E) $\pi + 4$

15.



Yarıçapları aynı olan A, B, C merkezli çemberler

Circles with the centers A, B and C with the same radii

Ç(ABC) = 14 br

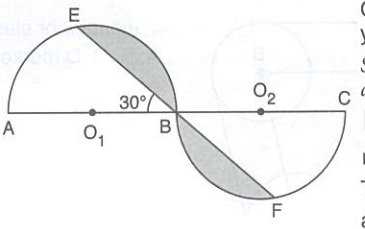
$|GF| = 2$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $15 - 4\pi$ B) $4\pi - 3\sqrt{7}$ C) 4π D) 2π E) π

16.



O_1 ve O_2 merkezli yarım çemberler

Semi-circles with O_1 and O_2 center points

$|AB| = 2|BC| = 8$ br

$m(\widehat{EBA}) = 30°$

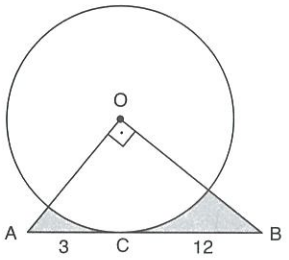
Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $\pi - 2$ B) $5\pi - 10$ C) $\frac{20\pi}{3} - 5\sqrt{3}$ D) $\frac{20\pi}{3} - 6\sqrt{3}$ E) 10π

PUZA YAYINLARI

1.



O merkezli çember

A circle with a center O

[AO] ⊥ [OB]

4|AC| = |CB| = 12 br

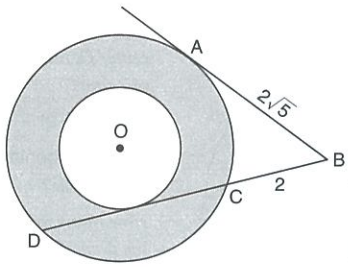
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 36π B) $90 - 18\pi$ C) 36

D) $45 - 9\pi$ E) $36\pi - 45$

2.



O merkezli çemberler

Circles with a center O

$|AB| = 2\sqrt{5}$ br

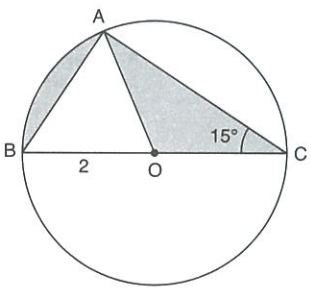
|BC| = 2 br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 4π B) 9π C) 16π D) 25π E) 36π

3.



O merkezli çember

A circle with a center O

|BO| = 2 br

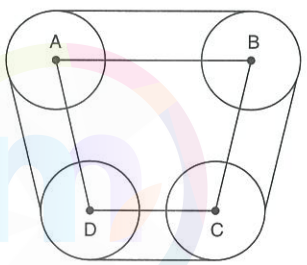
$m(\widehat{ACB}) = 15°$

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $\frac{\pi}{3}$ B) $\frac{5\pi}{3}$ C) 3π D) 4π E) 5π

4.



Yarıçapı 2 br olan A, B, C, D merkezli eş çemberler

Congruent circles with the centers A, B and C with a radius of 2 units

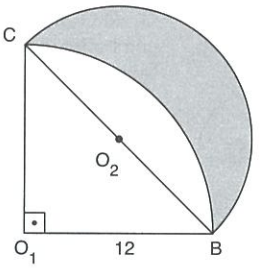
Ç(ABCD) = 22π

Çemberlerin çevresine gerilmiş ipin uzunluğu kaç br'dir?

How many unit is the length of the thread tightened around the circumferences of the circles?

A) 24π B) 26π C) 28π D) 30π E) 32π

5.



O_1 ve O_2 merkezli çemberler

Circles with O_1 and O_2 center points

$[CO_1] \perp [O_1 B]$

$|O_1B| = 12$ br

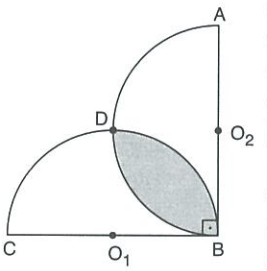
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $72 - 27\pi$ B) $72 - 25\pi$ C) $16\pi - 16$

D) 72 E) 25π

6.



O_1 ve O_2 merkezli eş yarım çemberler

Congruent semicircles with centers of O_1 and O_2

[AB] ⊥ [BC]

|AB| = 4 br

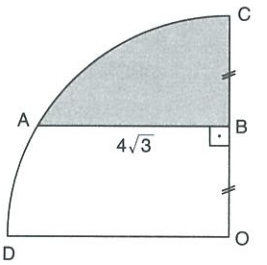
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $\pi - 4$ B) $\pi - 2$ C) π

D) $2\pi - 4$ E) $2\pi - 2$

7.



O merkezli çeyrek çember

A quarter circle with a center O

[CB] ⊥ [BA]

$|AB| = 4\sqrt{3}$ br

|CB| = |BO|

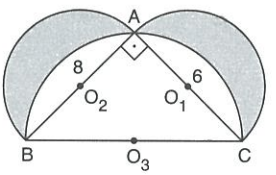
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $\frac{32\pi}{3} - 8\sqrt{3}$ B) $8\pi - 4\sqrt{3}$ C) $\frac{16\pi}{3} - 4\sqrt{3}$

D) $8\pi - 8\sqrt{3}$ E) $4\pi + 4\sqrt{3}$

8.



O_1, O_2 ve O_3 merkezli çemberler

Circles with centers of O_1, O_2 and O_3

[BA] ⊥ [AC]

|AB| = 8 br

|AC| = 6 br

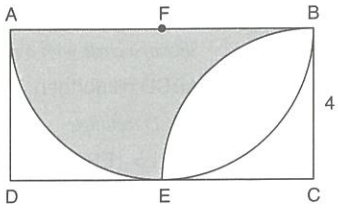
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 25π B) 24π C) 22π D) 24 E) 12

PUZA YAYINLARI

9.



C ve F merkezli çemberler

Circles with C and F center points

ABCD dikdörtgen

ABCD rectangle

$|BC| = 4$ br

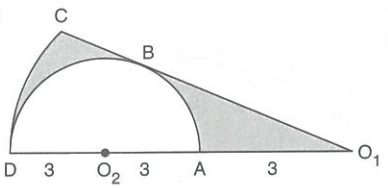
Taralı bölgenin alanı kaç br^2'dir?

How many unit2 is the area of the shaded sector?

A) 16 B) $18\pi - 4$ C) $32 - 8\pi$

D) $8\pi - 16$ E) $16 - 4\pi$

10.



O_1 ve O_2 merkezli çemberler

Circles with O_1 and O_2 center points

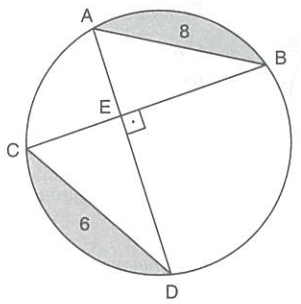
$|DO_2| = |O_2A| = |AO_1| = 3$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) 12π B) 8π C) $\frac{15\pi}{4}$ D) $\frac{9\pi}{4}$ E) 2π

11.



$[AD] \perp [CB]$

$|AB| = 8$ br

$|CD| = 6$ br

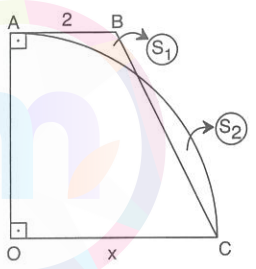
Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) 24 B) $25\pi - 24$ C) $100\pi - 24$

D) $25\pi + 48$ E) $\frac{25\pi}{2} - 24$

12.



O merkezli çeyrek çember

A quarter circle with a center O

$S_1 = S_2$

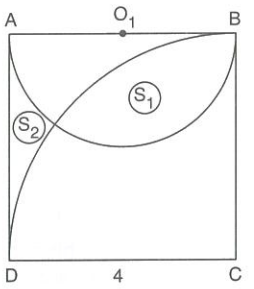
$|AB| = 2$ br

$\Rightarrow |OC| = x = ?$

A) $\frac{2}{\pi - 2}$ B) $\frac{4}{\pi - 2}$ C) $2\pi - 4$

D) $\pi + 2$ E) $4\pi + 8$

13.



O_1 ve C merkezli çemberler

Circles with O_1 and C center points

ABCD kare

ABCD square

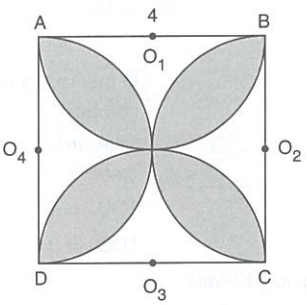
$|DC| = 4$ br

$\Rightarrow S_1 - S_2 = ?$

A) $6\pi - 18$ B) $8\pi - 16$ C) $6\pi - 16$

D) $6\pi - 24$ E) $8\pi - 18$

14.



O_1, O_2, O_3 ve O_4 merkezli çemberler

Circles with O_1, O_2, O_3 and O_4 center points

ABCD kare

ABCD square

$|AB| = 4$ br

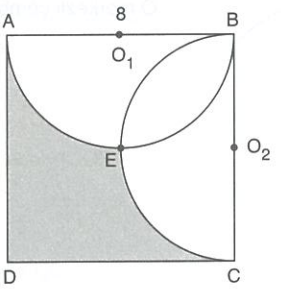
Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $2\pi - 5$ B) $\pi - 2$ C) $\pi - 1$

D) $2\pi - 4$ E) $8\pi - 16$

15.



O_1 ve O_2 merkezli yarım çemberler

Semi-circles with O_1 and O_2 center points

ABCD kare

ABCD square

$|AB| = 8$ br

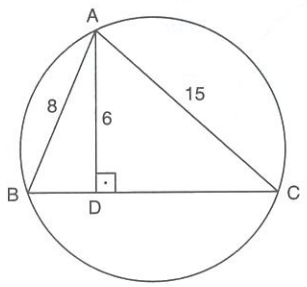
Taralı bölgenin alanı kaç br^2'dir?

How many unit$_2$ is the area of the shaded sector?

A) $48 - 8\pi$ B) $80 - 24\pi$ C) $16\pi - 16$

D) $24\pi - 16$ E) $48 + 8\pi$

16.



$[AD] \perp [BC]$

$|AB| = 8$ br

$|AC| = 15$ br

$|AD| = 6$ br

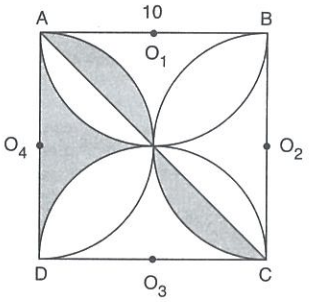
Şekildeki dairenin alanı kaç br^2'dir?

How many unit^2 is the area of the circle in the figure?

A) 64π B) $\frac{289\pi}{4}$ C) 81π D) 100π E) 200π

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



O_1, O_2, O_3 ve O_4 merkezli çemberler

Circles with O_1, O_2, O_3 and O_4 center points

ABCD kare

ABCD square

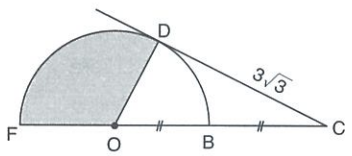
$|AB| = 10$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) 25 B) 50 C) 25π D) $25\pi - 10$ E) $50\pi - 10$

2.



O merkezli yarım çember

Semi-circle with a center O

$|OB| = |BC|$

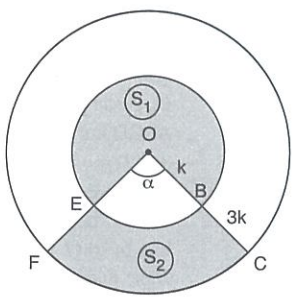
$|DC| = 3\sqrt{3}$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) 2π B) 3π C) 6π D) 9π E) 12π

3.



O merkezli çemberler

Circles with a center O

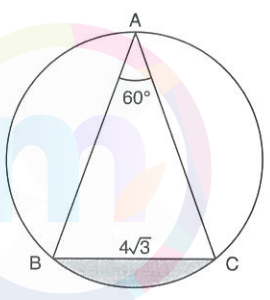
$S_1 = S_2$

$3|OB| = |BC|$

$\Rightarrow m(\widehat{FOC}) = \alpha = ?$

A) 22,5 B) 30 C) 40 D) 45 E) 60

4.



$m(\widehat{BAC}) = 60°$

$|BC| = 4\sqrt{3}$ br

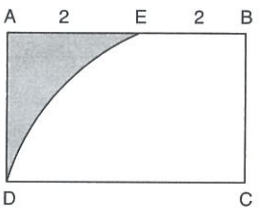
Taralı bölgenin alanı kaç br^2 dir?

How many unit^2 is the area of the shaded sector?

A) $4\sqrt{3}$ B) $16\pi - 4\sqrt{3}$ C) $\frac{16\pi}{3} - 4\sqrt{3}$ D) $16\pi - 4$ E) 4π

PUZA YAYINLARI

5.



C merkezli çember dilimi

Slice of a circle with a center C

ABCD dikdörtgen

ABCD rectangle

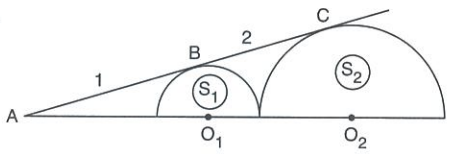
$|AE| = |EB| = 2$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $6\sqrt{3} - \frac{8\pi}{3}$ B) $6\sqrt{3} - 4\pi$ C) $9\sqrt{3} - 4\pi$ D) $9\sqrt{3} + 4\pi$ E) $12\sqrt{3} - \frac{4\pi}{3}$

6.



$|AB| = 1$ br

$|BC| = 2$ br

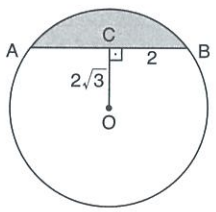
O_1 ve O_2 merkezli yarım çemberler

Semi-circles with O_1 and O_2 center points

$\Rightarrow \frac{S_2}{S_1} = ?$

A) 2 B) $\frac{5}{2}$ C) 3 D) $\frac{9}{2}$ E) 9

7.



O merkezli çember

Circles with a center O

$[OC] \perp [AB]$

$|CB| = 2$ br

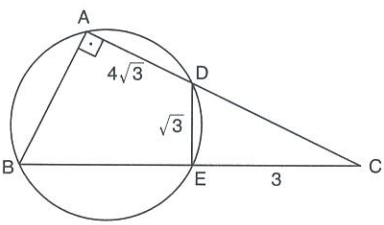
$|OC| = 2\sqrt{3}$ br

Taralı bölgenin alanı kaç br^2 dir?

How many unit^2 is the area of the shaded sector?

A) $\frac{8\pi}{3} - 4\sqrt{3}$ B) $8\pi - 4\sqrt{3}$ C) $4\pi - 2\sqrt{3}$ D) 4π E) 2π

8.



$[BA] \perp [AC]$

$|AD| = 4\sqrt{3}$ br

$|DE| = \sqrt{3}$ br

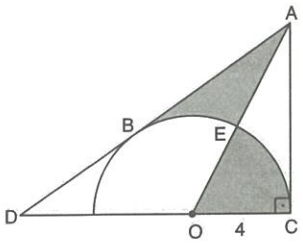
$|EC| = 3$ br

Şekildeki dairenin alanı kaç br^2 dir?

How many unit^2 is the area of circle the in figure?

A) 21π B) 24π C) 36π D) 64π E) 144π

9.



O merkezli yarım çember

Semi-circle with a center O

$|AB| = 6$ br

$|OC| = 4$ br

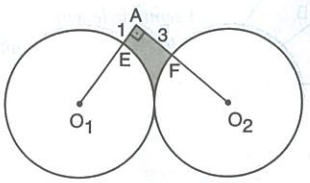
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $8\pi + 6$ B) $4\pi + 6$ C) 24

D) 12 E) $24 - \frac{25\pi}{2}$

10.



O_1 ve O_2 merkezli eş çemberler

Congruent circles with centers of O_1 and O_2

$|EA| = 1$ br

$|AF| = 3$ br

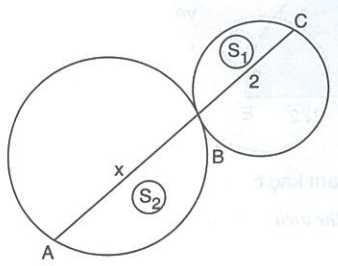
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 15π B) $96 - 25\pi$ C) $96 - \frac{25\pi}{4}$

D) $24 - \frac{25\pi}{4}$ E) $24 - 15\pi$

11.



$S_1 = 10$ br²

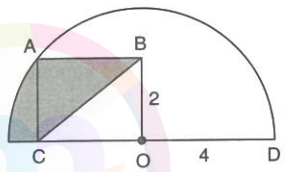
$S_2 = 20$ br²

$|BC| = 2$ br

$\Rightarrow |AB| = x = ?$

A) 1 B) $\sqrt{2}$ C) 2 D) $2\sqrt{2}$ E) 4

12.



O merkezli yarım çember

Semi-circle with a center O

ABOC dikdörtgen

ABOC rectangle

$|BO| = 2$ br

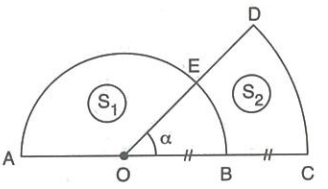
$|OD| = 4$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $\frac{\pi}{3}$ B) $\frac{4\pi}{3}$ C) 3π D) 6π E) 8π

13.



O merkezli çemberler

Circles with a center O

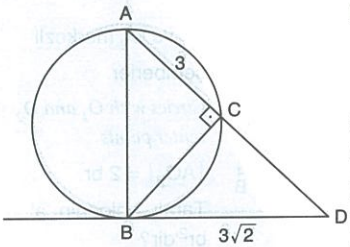
$S_1 = S_2$

$|OB| = |BC|$

$\Rightarrow m(\widehat{DOC}) = \alpha = ?$

A) 30 B) 36 C) 45 D) 60 E) 67,5

14.



$[AC] \perp [CB]$

$|AC| = 3$ br

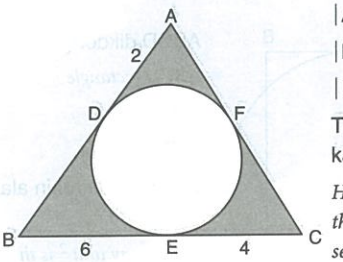
$|BD| = 3\sqrt{2}$ br

Şekildeki dairenin alanı kaç br²'dir?

How many unit² is the area of the circle in figure?

A) 3π B) $\frac{9}{2}\pi$ C) 6π D) 9π E) 18π

15.



$|AD| = 2$ br

$|BE| = 6$ br

$|EC| = 4$ br

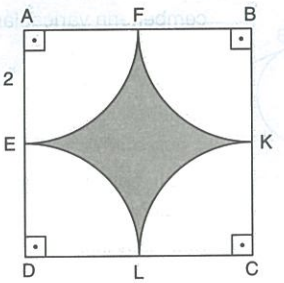
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 12 B) 24 C) $24 - 4\pi$

D) $12 - 4\pi$ E) $48 - 4\pi$

16.



A, B, C ve D merkezli eş çemberler

Congruent circles with centers of A, B, C and D

$|AE| = 2$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $16 - 4\pi$ B) $16 - \pi$ C) $8 - 4\pi$

D) $8 - 2\pi$ E) 4π

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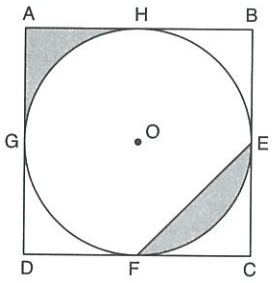
PUZA YAYINLARI

1.



O merkezli çember

A circle with a center O

ABCD kare

ABCD square

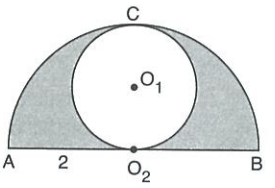
$|AB| = 6$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $\frac{3}{2}$ B) π C) $\frac{9}{2}$ D) 9 E) 3π

2.



O_1 ve O_2 merkezli çemberler

Circles with O_1 and O_2 center points

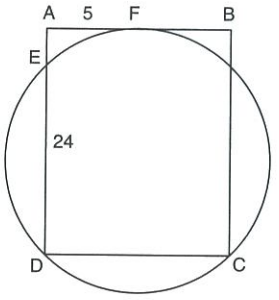
$|AO_2| = 2$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) π B) 2π C) 3π D) 4π E) 5π

3.



ABCD dikdörtgen

ABCD rectangle

$|AF| = 5$ br

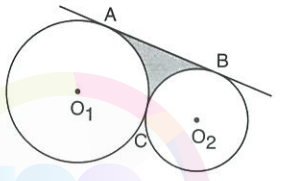
$|ED| = 24$ br

Şekildeki dairenin alanı kaç br²'dir?

How many unit² is the area of the circle in the figure?

A) 169π B) 144π C) 100π D) 81π E) 64π

4.



O_1 ve O_2 merkezli çemberlerin yarıçapları sırasıyla 6 ve 2'dir.

The radii of the circles with the centers O_1 and O_2 are 6 and 2, respectively.

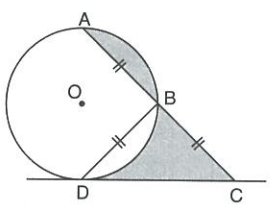
Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $8\sqrt{3} - \frac{11\pi}{3}$ B) $16\sqrt{3} - 8\pi$ C) $9\pi - 8\sqrt{3}$

D) $16\sqrt{3} - \frac{22\pi}{3}$ E) 8π

5.



O merkezli çemberin çevresi 6π

Circumference of a circle with a center O is 6π

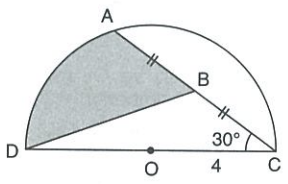
$|AB| = |BC| = |DB|$

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 3 B) $3\pi + 2$ C) 9 D) $9 + \pi$ E) $16 + 2\pi$

6.



O merkezli yarım çemberin yarıçapı 4 br

A semi-circle with a center O, has a radius of 4 units

$|AB| = |BC|$

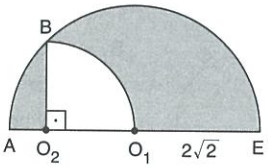
$m(\widehat{ACD}) = 30°$

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) 4 B) 9 C) 16 D) $\frac{\pi}{4}$ E) $\frac{8\pi}{3}$

7.



O_1, O_2 merkezli yarım ve çeyrek çemberler

Semi- and quarter circles with O_1 and O_2 center points

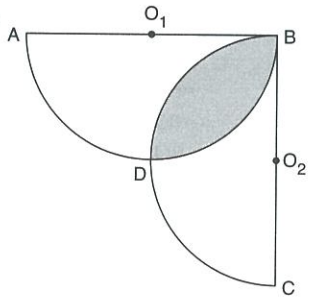
$|O_1E| = 2\sqrt{2}$ br

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) π B) 2π C) 3π D) 4π E) 5π

8.



O_1 ve O_2 merkezli eş çemberlerin yarıçapı 2 br

The radius of congruent circles with O_1 and O_2 center points is 2 units

Taralı bölgenin alanı kaç br²'dir?

How many unit² is the area of the shaded sector?

A) $\pi - 2$ B) π C) $2\pi - 4$ D) $\pi + 4$ E) $2\pi + 4$

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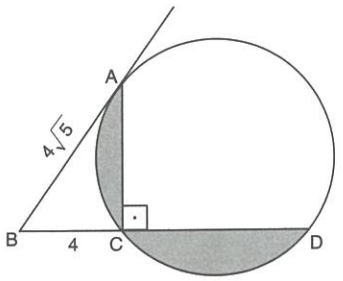
PUZA YAYINLARI

9.



$[AC] \perp [BD]$

$|AB| = 4\sqrt{5}$ br

$|BC| = 4$ br

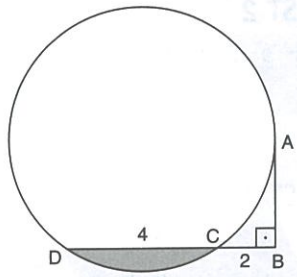
Taralı bölgenin alanı kaç br^2 dir?

How many unit^2 is the area of the shaded sector?

A) $64 - 18\pi$ B) $20\pi - 32$ C) $40\pi - 32$

D) $40\pi - 64$ E) $16\pi + 32$

10.



$[AB] \perp [DB]$

$2|BC| = |DC| = 4$ br

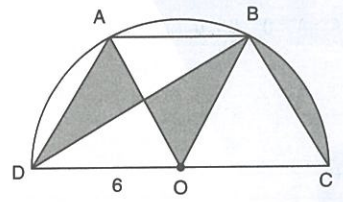
Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $\frac{4\pi}{3} - 2\sqrt{3}$ B) 4 C) 6

D) $4\sqrt{3}$ E) $\frac{8\pi}{3} - 4\sqrt{3}$

11.



O merkezli yarım çember

Semi-circle with a center O

ABOD paralelkenar

ABOD parallelogram

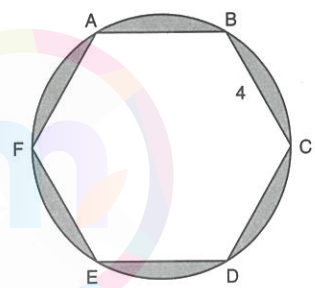
$|OD| = 6$ br

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) 4π B) 6π C) 9π D) 12π E) 15π

12.



ABCDEF düzgün altıgen

ABCD regular hexagon

$|BC| = 4$ br

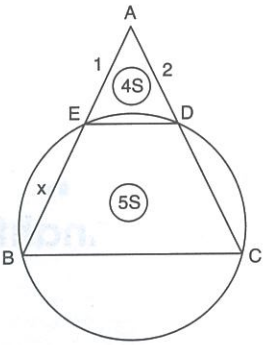
Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $16\pi - 2\sqrt{3}$ B) $16\pi - 4\sqrt{3}$ C) $8\pi + 4\sqrt{3}$

D) $8\pi - 2\sqrt{3}$ E) $16\pi - 24\sqrt{3}$

13.



$A(AED) = 4S$

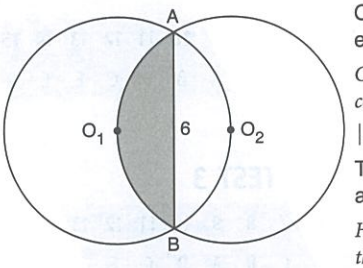
$A(EDCB) = 5S$

$|AD| = 2|AE| = 2$ br

$\Rightarrow |EB| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

14.



O_1 ve O_2 merkezli eş çemberler

Congruent circles with centers of O_1 and O_2

$|AB| = 6$ br

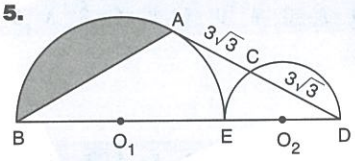
Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $4\pi + 3\sqrt{3}$ B) $2\pi + 3\sqrt{3}$ C) $9\pi - 18$

D) $4\pi - 3\sqrt{3}$ E) $4\pi - 6\sqrt{3}$

15.



O_1 ve O_2 merkezli yarım çemberler

Semi-circles with O_1 and O_2 center points

$|AC| = |CD| = 3\sqrt{3}$ br

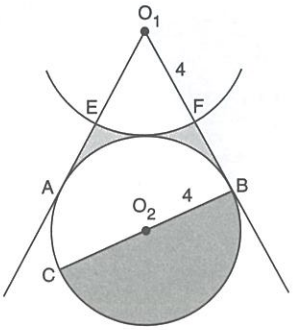
Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $12\pi - 9\sqrt{3}$ B) 9π C) $12\pi - 18\sqrt{3}$

D) 6π E) $4\pi - 4\sqrt{3}$

16.



O_1 ve O_2 merkezli 4 br yarıçaplı eş çemberler

Congruent circles with O_1 and O_2 center points with a radius of 4 units

Taralı bölgenin alanı kaç br^2'dir?

How many unit^2 is the area of the shaded sector?

A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $8\sqrt{3}$ D) $12\sqrt{3}$ E) $16\sqrt{3}$

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DAİREDE ALAN
Yanıt Anahtarı

AREAS IN CIRCULAR REGION
Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	D	B	D	C	B	D	C	A	B	B	C	E	E	B	B

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	D	C	E	A	A	A	C	A	E	E	E	A	A	E	E

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	B	C	D	A	E	C	D	A	D	C	E	E	C	B	C

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	C	E	E	A	C	E	C	A	B	C	A	B	D	D	C

TEST 5

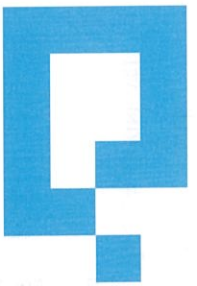
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	A	B	D	D	A	D	A	D	E	B	C	E	A	D

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	B	A	C	A	E	A	A	D	D	D	B	C	B	C	A

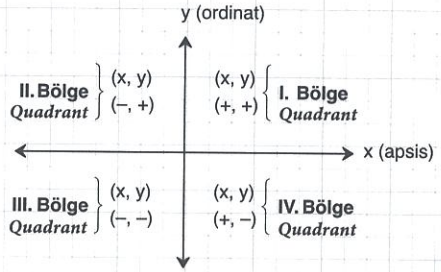
TEST 7

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	A	A	D	C	E	C	C	D	E	B	E	B	D	A	E



ANALİTİK GEOMETRİ
ANALYTIC GEOMETRY-LINE

ÖZELLİK|Property 1



1. $A(a^2, -b^3 \cdot a^4)$ noktası koordinat düzleminde I. bölgede ise $B(-b, -a^2)$ noktası koordinat düzleminde kaçıncı bölgededir?

If the point $A(a^2, -b^3 \cdot a^4)$ is in the I.st quadrant at the coordinate system, then which quadrant is the point $B(-b, -a^2)$ at the coordinate system?

IV

2. $A(a - 4, a \,.\, b)$ noktası koordinat düzleminde IV. Bölgede ise $B(b - a, a^2 \cdot b)$ noktası koordinat düzleminde kaçıncı bölgededir?

If the point $A(a - 4, a \cdot b)$ is in the IV.th quadrant at the coordinate system, then which quadrant is the point $B(b - a, a^2 \,.\, b)$ at the coordinate system?

III

3. $A(4a - 24, a - 12)$ noktası koordinat düzleminde IV. Bölgede olduğuna göre, a'nın tanım aralığı nedir?

In case the point $A(4a-24, a-12)$ is in I.st quadrant at the coordinate system, what is the definition range of a?

$6 < a < 12$

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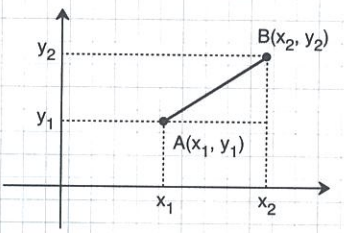
ÖZELLİK|Property 2



$$|AB| = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

1. A(–7, 3), B(–2, –9)

$\Rightarrow |AB| = ?$

13

2. A(x, 3), B(2, –5), $|AB| = 10$ br

$\Rightarrow \sum x = ?$

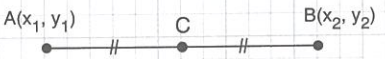
4

3. A(3, 2), B(x, 1), C(–2, –2)

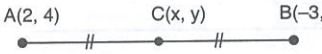
$|AB| = |BC|$ $\Rightarrow x = ?$

$-\frac{3}{10}$

ÖZELLİK|Property 3

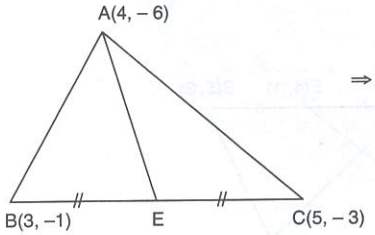


$$|AC| = |BC| \Rightarrow C\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

1. 

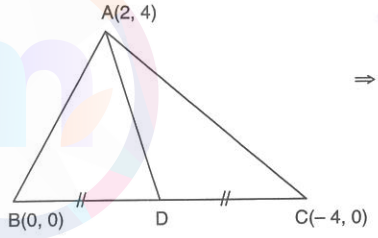
$\Rightarrow C(x, y) = ?$

$\left(-\frac{1}{2}, -\frac{1}{2}\right)$

2. 

$\Rightarrow |AE| = ?$

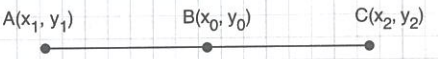
4

3. 

$\Rightarrow |AD| = ?$

$4\sqrt{2}$

ÖZELLİK|Property 4

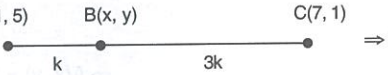


$B \in [AC]$

$\frac{|BA|}{|BC|} = k$

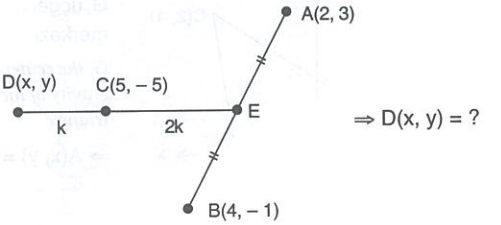
$$x_0 = \frac{x_1 + kx_2}{1 + k}$$

$$y_0 = \frac{y_1 + ky_2}{1 + k}$$

1. 

$\Rightarrow B(x, y) = ?$

(1, 4)

2. 

$\Rightarrow D(x, y) = ?$

(6, – 8)

3.

$C \notin [AB]$

$C \in AB$

$\frac{|AC|}{|BC|} = \frac{1}{4}$

$\Rightarrow C(x, y) = ?$

(1, –4)

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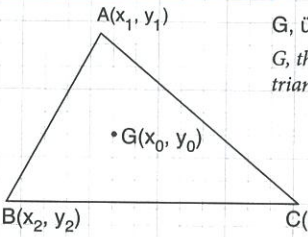
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 5

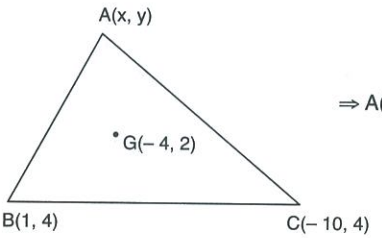


G, üçgenin ağırlık merkezi

G, the center of gravity of the triangle

$$x_0 = \frac{x_1 + x_2 + x_3}{3} \qquad y_0 = \frac{y_1 + y_2 + y_3}{3}$$

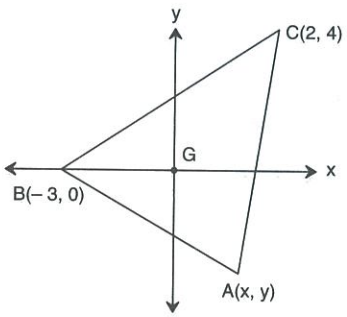
1.



⇒ A(x, y) = ?

(– 3, – 2)

2.



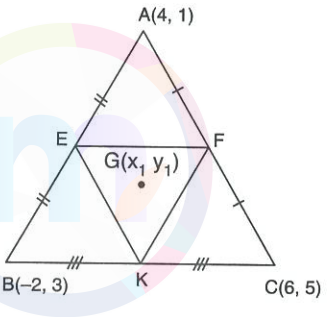
G, üçgenin ağırlık merkezi

G, the center of gravity of the triangle

⇒ A(x, y) = ?

(1, – 4)

3.



G, EFK üçgeninin ağırlık merkezi

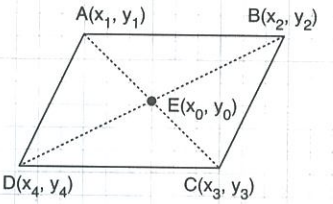
G, the center of gravity of the EFK triangle

⇒ G(x_1, y_1) = ?

$\left(\frac{8}{3}, 3\right)$

PUZA YAYINLARI

ÖZELLİK|Property 6



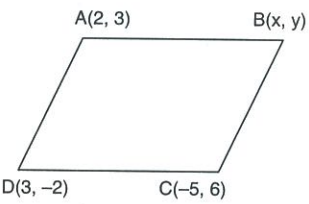
ABCD Paralelkenar

ABCD parallelogram

$$x_0 = \frac{x_1 + x_3}{2} = \frac{x_2 + x_4}{2} \qquad y_0 = \frac{y_1 + y_3}{2} = \frac{y_2 + y_4}{2}$$

$$x_1 + x_3 = x_2 + x_4$$
$$y_1 + y_3 = y_2 + y_4$$

1.



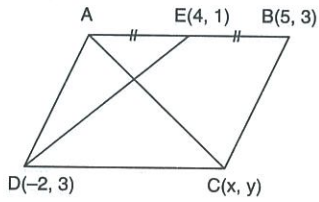
ABCD paralelkenar

ABCD parallelogram

⇒ B(x, y) = ?

(–6, 11)

2.



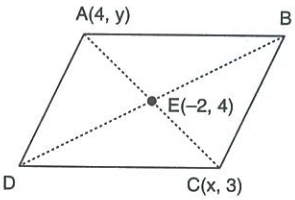
ABCD paralelkenar

ABCD parallelogram

⇒ C(x, y) = ?

(0, 7)

3.



ABCD paralelkenar

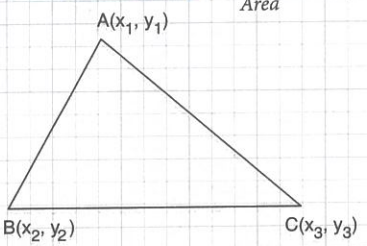
ABCD parallelogram

⇒ x + y = ?

–3

PUZA YAYINLARI

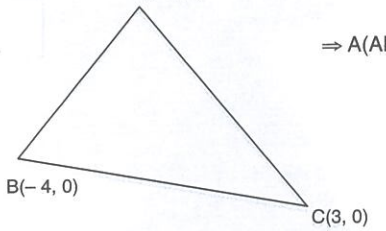
ÖZELLİK|Property 7 — Alan / *Area*



$$A(ABC) = \frac{1}{2}\begin{vmatrix} x_1 & y_1 \\ x_2 & y_2 \\ x_3 & y_3 \end{vmatrix}$$

$$= \frac{1}{2}|x_1y_2 + x_2y_3 + x_3y_1 - y_1x_2 - y_2x_3 - y_3x_1|$$

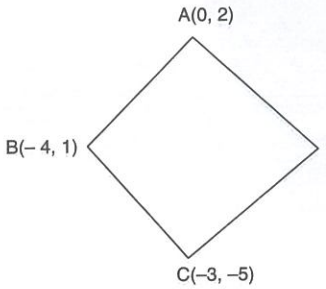
1.



⇒ A(ABC) = ?

14

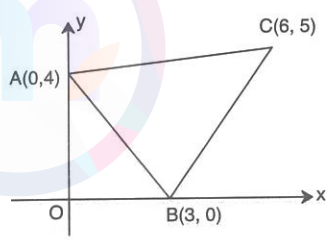
2.



⇒ A(ABCD) = ?

30

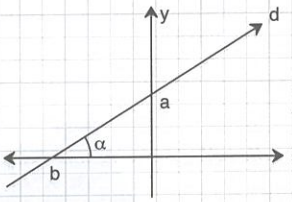
3.



⇒ A(ABC) = ?

$\frac{27}{2}$

ÖZELLİK|Property 8 — Eğim / *Slope*



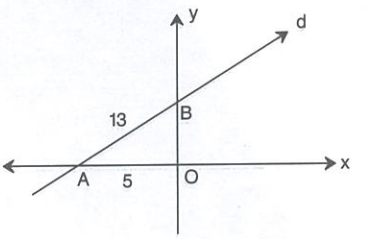
$$\text{Eğim} = m = \tan\alpha = \frac{a}{b}$$

Slope

Doğrunun x ekseni ile pozitif yöndeki yaptığı açının tanjantı

The tangential of an angle between the x axis and a positive direction

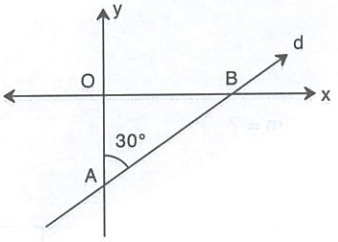
1.



⇒ m = ?

$\frac{12}{5}$

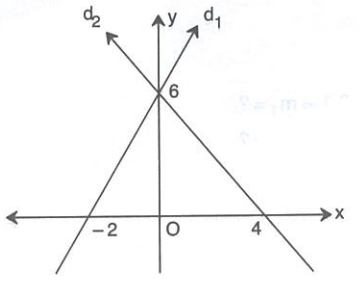
2.



⇒ m = ?

$\sqrt{3}$

3.



⇒ (m_1, m_2) = ?

$\left(3, -\frac{3}{2}\right)$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 9

Eğim
Slope

$d: ax + by + c = 0 \quad \Rightarrow y = \underbrace{-\frac{a}{b}}\, x - \frac{c}{b}$

$$m = -\frac{a}{b}$$

1. $\left.\begin{matrix} d_1: y = 2x - 4 \\ d_2: y = 7x - 1 \end{matrix}\right\} \Rightarrow m_1 = ?,\ m_2 = ?$

2, 7

2. $2y - 5 = 3x \quad \Rightarrow m = ?$

$\frac{3}{2}$

3. $\left.\begin{matrix} d_1: 3x - y + 2 = 0 \\ d_2: 2x + 4y - 1 = 0 \end{matrix}\right\} \Rightarrow m_1 = ?,\ m_2 = ?$

$3, -\frac{1}{2}$

PUZA YAYINLARI

ÖZELLİK|Property 10

Eğim
Slope

$$m_{AB} = \frac{y_2 - y_1}{x_2 - x_1}$$

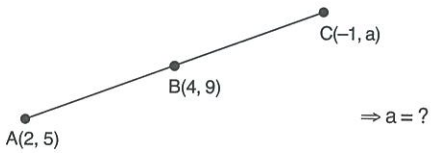
1. A(1, 3), B(–2, –7) $\Rightarrow m_{AB} = ?$

$\frac{10}{3}$

2. A(2, k), B(3, 5) $m_{AB} = 4$ $\Rightarrow k = ?$

1

3.



$\Rightarrow a = ?$

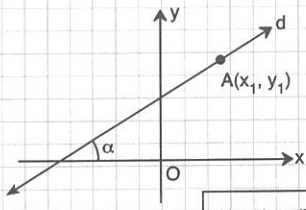
A, B ve C doğrusal noktalar
A, B and C points are linear

–1

ÖZELLİK|Property 11

- Bir noktası ve eğimi bilinen doğru denklemi

The equation of a line of which a point and its slope is known

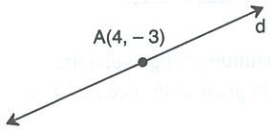


$m = \tan\alpha$

$A(x_1, y_1)$

$y - y_1 = m(x - x_1)$

1.

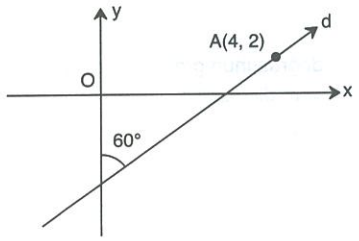


$m = 3$

$\Rightarrow$ d = ?

y – 3x + 15 = 0

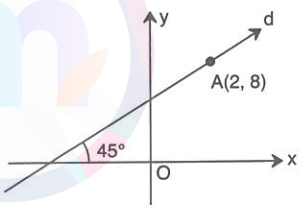
2.



$\Rightarrow$ d = ?

$\sqrt{3}y - x - 2\sqrt{3} + 4 = 0$

3.



$\Rightarrow$ d = ?

y – x – 6 = 0

ÖZELLİK|Property 12

- İki noktası bilinen doğru denklemi

The equation of a line of which two points are known

$m = \dfrac{y_2 - y_1}{x_2 - x_1}$

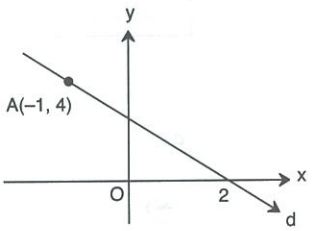
$y - y_1 = m(x - x_1)$

1.

$\Rightarrow$ d = ?

y + 4x – 14 = 0

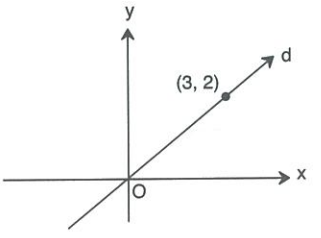
2.



$\Rightarrow$ d = ?

3y + 4x – 8 = 0

3.



$\Rightarrow$ d = ?

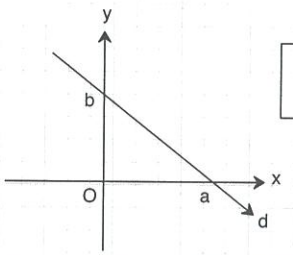
3y – 2x = 0

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 13

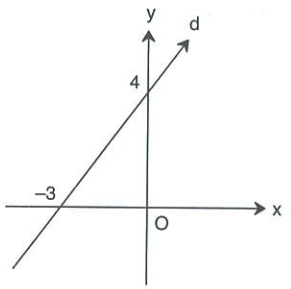
- Eksenleri kestiği noktaları bilinen doğru denklemi

  The equation of a line of which points intersect the axis are known



$$d: \frac{x}{a} + \frac{y}{b} = 1$$

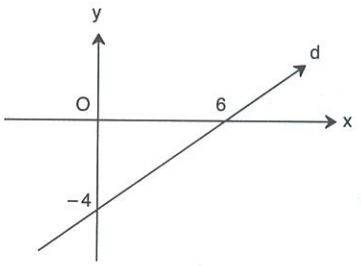
1.



⇒ d = ?

4x – 3y + 12 = 0

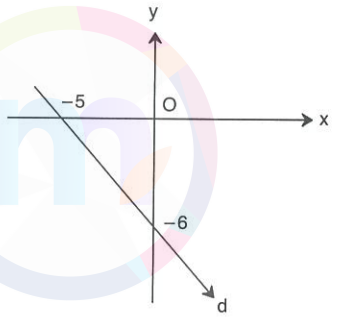
2.



⇒ d = ?

2x – 3y – 12 = 0

3.



⇒ d = ?

6x + 5y + 30 = 0

ÖZELLİK|Property 14

- Denklemi verilen doğrunun grafiğinin çizimi

  Drawing of the graph of a line of which equation is given

d: ax + by + c = 0 denklemi

Its equation d: ax + by + c = 0

x = 0 için y değeri

For x=0, y value

y = 0 için x değeri koordinat düzleminde d doğrusunun eksenleri kestiği noktaların koordinatlardır.

For y=0, the x value have the coordinates of the point where d line intersects at the coordinate plane

1. 2x – 4y + 8 = 0 doğrusunun grafiğini çiziniz.

draw the graph of the line 2x – 4y + 8 = 0

2. y = 4x – 12 doğrusunun grafiğini çiziniz.

draw the graph of the line y = 4x – 12

3. 2y + 5x + 10 = 0 doğrusunun grafiğini çiziniz.

draw the graph of the line 2y + 5x + 10 = 0

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 15

• Doğrular paralel $d_1 // d_2$

Lines are parallel to each other

$d_1 : a_1x + b_1y + c_1 = 0$

$d_2 : a_2x + b_2y + c_2 = 0$

• Doğrular paralel ise eğimleri eşittir.

If the lines are parallel to each other, then their slopes are the same

$m_1 = m_2 \quad -\frac{a_1}{b_1} = -\frac{a_2}{b_2} \Rightarrow \boxed{\frac{a_1}{b_1} = \frac{a_2}{b_2}}$

1. d_1: $2x + 3y + 5 = 0$

d_2: $x - ay - 4 = 0$

$d_1 // d_2 \Rightarrow a = ?$

$\boxed{-\frac{3}{2}}$

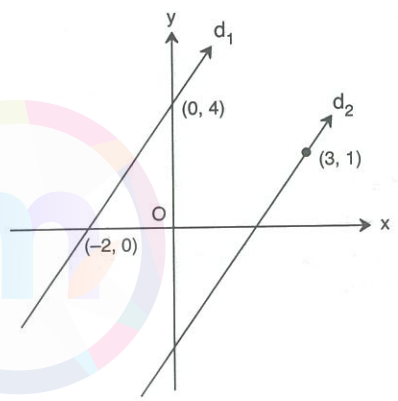
2. $d_1 : 2x - y + 6 = 0$

A(1, 2) d_2

$d_1 // d_2 \Rightarrow d_2 = ?$

$\boxed{y = 2x}$

3.



$d_1 // d_2$

$\Rightarrow d_2 = ?$

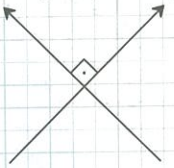
$\boxed{y - 2x + 5 = 0}$

ÖZELLİK|Property 16

• Doğrular dik kesişiyor ise

If the lines intersect each other at right angle

$d_1 : a_1x + b_1y + c_1 = 0 \quad d_2 : a_2x + b_2y + c_2 = 0$



$d_1 \perp d_2$

$m_1 . m_2 = -1$

$\left(-\frac{a_1}{b_1}\right).\left(-\frac{a_2}{b_2}\right) = -1$

$\boxed{\frac{a_1}{b_1}.\frac{a_2}{b_2} = -1}$

• Doğrular birbirine dik ise eğimleri çarpımı –1'dir.

If the lines are perpendicular to each other, then the multiplication of their slopes is -1.

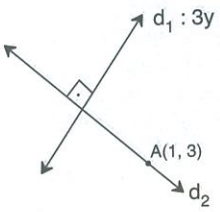
1. d_1: $2x + 4y + 3 = 0$

d_2: $ax - 6y + 4 = 0$

$d_1 \perp d_2 \Rightarrow a = ?$

$\boxed{12}$

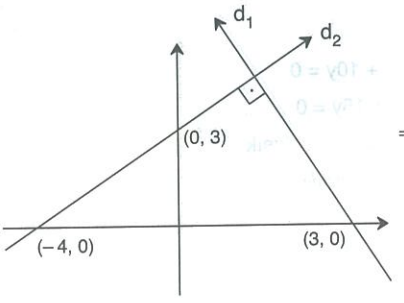
2.



$d_1 \perp d_2 \Rightarrow d_2 = ?$

$\boxed{y - x - 2 = 0}$

3.



$\Rightarrow d_1 = ?$

$\boxed{3y + 4x - 12 = 0}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 17

- Doğrular çakışık ise
  If the lines are coincident

$d_1 : a_1x + b_1y + c_1 = 0$
$d_2 : a_2x + b_2y + c_2 = 0$

$\Rightarrow \boxed{\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}}$

1. $d_1 : 2x + 3y - 12 = 0$
$d_2: 4x + ay + b = 0$
d_1 ve d_2 doğruları çakışık
d_1 and d_2 lines coincident

$\Rightarrow a + b = ?$

– 18

2. $d_1 : ax - 3y + 4 = 0$
$d_2: 12x - ay + b = 0$
d_1 ve d_2 doğruları çakışık
d_1 and d_2 lines coincident

$\Rightarrow b = ?$

8

3. $d_1 : (a - 1)x + 10y = 0$
$d_2: (a + 1)x + 15y = 0$
d_1 ve d_2 doğruları çakışık
d_1 and d_2 lines coincident

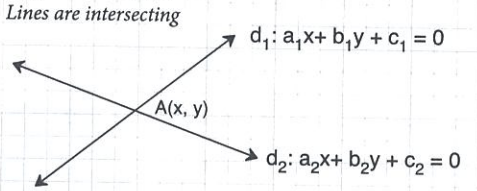
$\Rightarrow a = ?$

5

PUZA YAYINLARI

ÖZELLİK|Property 18

- Doğrular kesişiyor ise
  Lines are intersecting



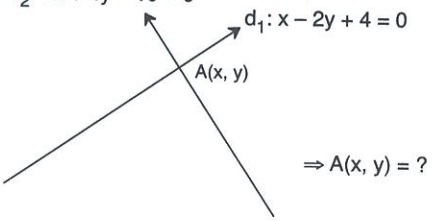
- Doğrular kesişiyorsa ortak çözüm yapılıp kesim noktası bulunur.

If the lines intersect, a common solution is applied and the breakpoint / intersecting node is found

1. $d_1 : 2x - 3y + 5 = 0$
$d_2: x + y - 10 = 0$
Doğruların kesim noktasını bulunuz.
Find the intersecting points of the lines.

(5, 5)

2. $d_2: 3x + 4y - 10 = 0$



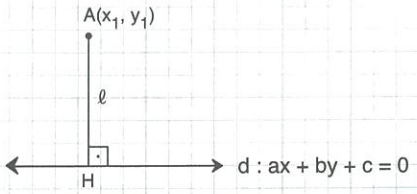
$\left(\frac{2}{5}, \frac{11}{5}\right)$

3. $d_1 : x - y - 1 = 0$
$d_2: x + 3y - 9 = 0$
Doğruların kesim noktası ve (–2, 1) noktasından geçen doğru denklemi nedir?
What is the intersecting point of the lines and the equation of the line passes through the point (-2,1)?

5y – x – 7 = 0

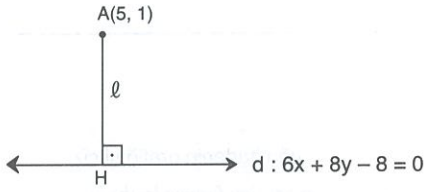
ÖZELLİK|Property 19

• Noktanın doğruya olan uzaklığı
The distance of the point to the line is



$$\ell = \frac{|ax_1 + by_1 + c|}{\sqrt{a^2 + b^2}}$$

1.



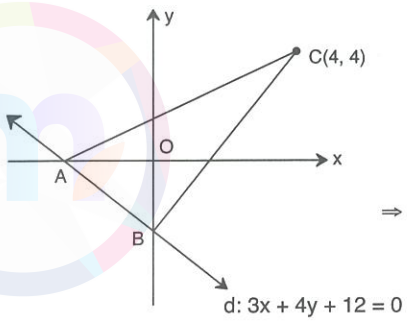
⇒ ℓ = ?

3

2. A(–2, 4) noktasının
5x – 12y + 20 = 0 doğrusuna olan uzaklığı kaç birimdir?
Of the point A(-2,4)
the distance of the point to the line 5x – 12y + 20 = 0 is.

$\frac{38}{13}$

3.

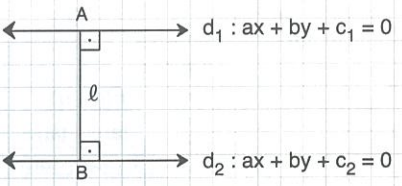


⇒ A(ABC) = ?

20

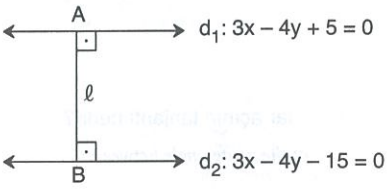
ÖZELLİK|Property 20

• Doğrunun doğruya olan uzaklığı $(d_1 // d_2)$
The distance of the line of the line is



$$\ell = \frac{|c_2 - c_1|}{\sqrt{a^2 + b^2}}$$

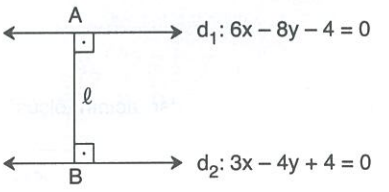
1.



⇒ ℓ = ?

4

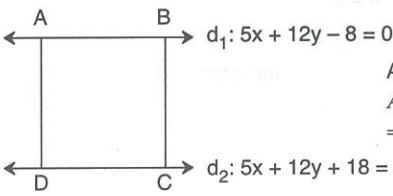
2.



⇒ ℓ = ?

$\frac{6}{5}$

3.



ABCD kare
ABCD square
⇒ A(ABCD) = ?

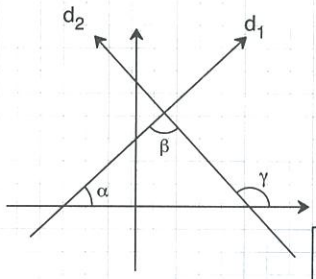
4

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 21

- Doğrular arasındaki açının tanjantı

The tangential of the angle between the lines



$\alpha + \beta = \gamma$

$\beta = \gamma - \alpha$

$\tan\beta = \tan(\gamma - \alpha)$

$$\tan\beta = \frac{\tan\gamma - \tan\alpha}{1 + \tan\gamma \cdot \tan\alpha}$$

$$\boxed{\tan\beta = \frac{m_2 - m_1}{1 + m_2 \cdot m_1}}$$

1. $d_1 : 2x - y + 1 = 0$

$d_2 : 2y + 6x + 5 = 0$

Doğruları arasındaki dar açının tanjantı nedir?

What is the tangential of the acute angle between the line?

1

2. $d_1 : y = -x$

$d_2 : y = \sqrt{3}x - 18$

d_1 ve d_2 doğruları arasındaki dar açının ölçüsü kaç derecedir?

How many degree is the measurement of the acute angle between the d_1 and d_2 lines?

75

3. $d_1 : nx + y - 4 = 0$

$d_2 : -\sqrt{3}x + y - 4 = 0$

Doğruları arasındaki dar açının ölçüsü 15° olduğuna göre,

While the measurement of the acute angle between the lines is 15°

$\Rightarrow n = ?$

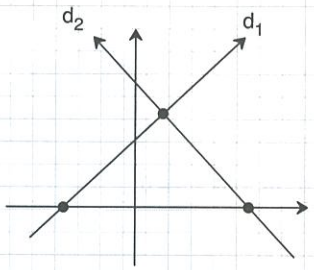
-1

PUZA YAYINLARI

ÖZELLİK|Property 22

- Eşitsizlik grafikleri

Graphs of inequality



Doğruların kesim noktası ve eksenleri kestiği noktalar bulunarak grafik çizilir. Oluşan bölgelerden noktalar alınarak eşitsizliğin sağlanıp sağlanmadığı kontrol edilir.

By finding intersecting point of the lines and the points where the axis intersected the graph is drawn, and by sampling the points at the sectors formed it is cross checked whether the inequality is proven or not.

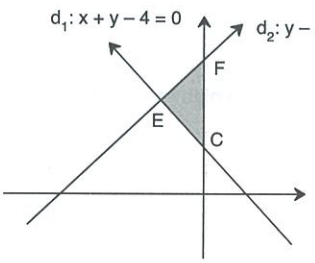
1. $d_1 : -3 \le x + y$

$d_2 : 2x - y + 2 \ge 0$

Doğrularının oluşturduğu ifadenin grafiğini çiziniz.

Draw the graph of the expression formed by the lines.

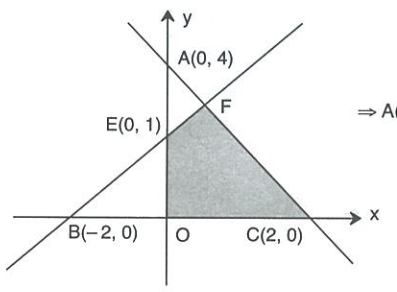
2.



$\Rightarrow A(EFC) = ?$

4

3.

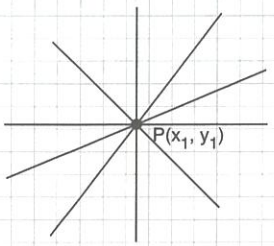


$\Rightarrow A(EOCF) = ?$

$\frac{11}{5}$

ÖZELLİK|Property 23 Doğru Demeti

Line Bundle



$ax + by + c + k(dx + ey + f) = 0$

$ax + by + c = 0$

$dx + ey + f = 0$

1. $k \in R$

$(1 + 2k)x - (2 - 3k)y + 6 - 2k = 0$

Doğrularının geçtiği noktanın koordinatları nedir?

What is the coordinates of the point where the line intersects?

(–2, 2)

2. $a \in R$

$(a - 1)x + 2ay - 4 = 0$

Doğrularının geçtiği noktanın koordinatları nedir?

What is the coordinates of the point where the line intersects?

(–4, 2)

3. $k \in R$

$(k - 2)y + x - 2k = 0$

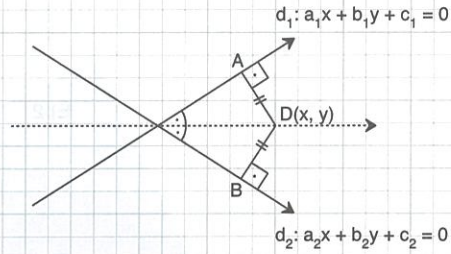
Doğrularının kesim noktası ve orijinden geçen doğru denklemi nedir?

What is the intersecting point of the lines and the equation of the line passes through the origin?

2y – x = 0

ÖZELLİK|Property 24 Açıortay Denklemi

Equation of Angle Bisector.



$$\frac{a_1x + b_1y + c_1}{\sqrt{a_1^2 + b_1^2}} = \pm \frac{a_2x + b_2y + c_2}{\sqrt{a_2^2 + b_2^2}}$$

1. Denklemler:

Equations:

$3x - 4y + 2 = 0$ ve

$3x + 4y + 4 = 0$ olan doğruların oluşturduğu açıortay denklemlerinden biri nedir?

What is one of the angle bisector equations formed by lines such as?

4y + 1 = 0

2. Denklemler:

Equations:

$2x - y - 4 = 0$ ve

$2y + x - 2 = 0$ olan doğruların oluşturduğu açıortay denklemlerinden biri nedir?

What is one of the angle bisector equations formed by lines such as?

y + 3x – 6 = 0

3. Denklemler:

Equations:

$3x - 4y + 5 = 0$ ve

$6y + 8x + 4 = 0$ olan doğruların oluşturduğu açıortay denklemlerinden biri nedir?

What is one of the angle bisector equations formed by lines such as?

7y + x – 3 = 0

PUZA YAYINLARI

1. Analitik düzlemde II. bölgede bulunan A(m – 3, 4) noktasının eksenlere uzaklıkları toplamı 6 br

At the analytic plane, for a point A(m – 3, 4) in the II.nd sector, a total distance to the axis is 6 units

⇒ m = ?

A) –2 B) –1 C) 0 D) 1 E) 2

2. n ∈ Z

T(n – 4, 2n – 2) noktaları analitik düzlemde II. bölgededir.

T(n – 4, 2n – 2) points are in the II.nd sector at the analytic plain

$\Rightarrow \sum n = ?$

A) 9 B) 7 C) 5 D) 3 E) 1

3. A(m – 3, 4) noktası Oy ekseni B(–2, n + 5) noktası Ox ekseni üzerinde

A(m – 3, 4) point is at the Oy axis, B(–2, n + 5) point is at the Ox axis

⇒ m + n = ?

A) –2 B) –1 C) 0 D) 2 E) 8

4. Analitik düzlemde A(k – 2, k + 6) noktasının II. Bölgede olması için k hangi aralıkta olmalıdır?

In order to be the A(k – 2, k + 6) point at the II.nd. Sector in the analytical plain, in which range has to be the k value?

A) k > 2 B) k < – 6 C) – 6 < k < 2

D) – 2 < k < 6 E) – 8 < k < 8

5. A(2, 4) — C(x, y) — B(–2, 6) ; |AC| = |CB| ⇒ C(x, y) = ?

A) (0, 5) B) (2, 10) C) (0, 1)

D) (4, 2) E) (4, 5)

6. A(3, 5) — B(5, –1) — C(x, y) ; |AB| = |BC| ⇒ C(x, y) = ?

A) (8, 4) B) (7, –7) C) (2, 4)

D) (4, 2) E) (14, –14)

7. A(1, 4) — C(x, y) — B(4, 1) ; |AC| = |CB| ⇒ C(x, y) = ?

A) $\left(\frac{1}{2}, \frac{1}{2}\right)$ B) (2, 4) C) $\left(\frac{5}{2}, \frac{5}{2}\right)$

D) (5, 5) E) (10, 10)

8. A(2x+1, x+1) — C(1, 3) — B(x–2, x+3) ; |AC| = |CB| ⇒ x = ?

A) 1 B) 2 C) 3 D) 4 E) 5

PUZA YAYINLARI

9. A(2, 3) B(7, –9) $\Rightarrow |AB| = ?$

A) 15 B) 13 C) $\sqrt{79}$ D) $\sqrt{61}$ E) 7

10. A(5, –2) B(2, –1) $\Rightarrow |AB| = ?$

A) 5 B) 4 C) $\sqrt{10}$ D) 3 E) 2

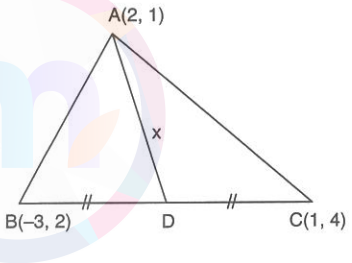
11. A(1, –2) B(x, 6) $|AB| = 10$

10

$\Rightarrow \sum x = ?$

A) 2 B) 4 C) 6 D) 7 E) 8

12.



$|BD| = |DC|$

$\Rightarrow |AD| = x = ?$

A) 5 B) $\sqrt{17}$ C) $\sqrt{13}$ D) 3 E) 2

13. A(3, m), B(4, 2), C(–1, 3)

$|AB| = |AC|$ $\Rightarrow m = ?$

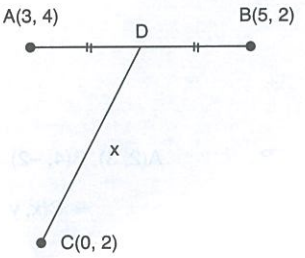
A) 2 B) 4 C) 6 D) 8 E) 10

14. A(2, –2), B(m, 4), C(0, 3)

$|AB| = |BC|$ $\Rightarrow m = ?$

A) 12 B) $\frac{39}{4}$ C) $\frac{27}{5}$ D) $\frac{1}{5}$ E) –1

15.

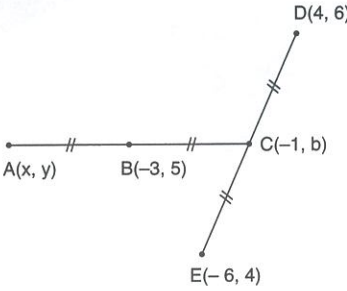


$|AD| = |DB|$

$\Rightarrow |CD| = x = ?$

A) $\sqrt{23}$ B) $2\sqrt{5}$ C) $\sqrt{17}$ D) 4 E) $\sqrt{10}$

16.



$|DC| = |CE|$

$|AB| = |BC|$

$\Rightarrow |AC| = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

PUZA YAYINLARI

1. A(–2, 4) B(3, 1) C(x, y)

k 2k

$2|AB| = |BC|$

$\Rightarrow C(x, y) = ?$

A) (– 2, 4) B) (– 4, 8) C) (6, 8)

D) (13, – 5) E) (8, – 2)

2. A(0, –2) B(x, y) C(5, –12)

2k 3k

$3|AB| = 2|BC|$

$\Rightarrow B(x, y) = ?$

A) (4, – 4) B) (2, – 4) C) (4, – 6)

D) (1, – 6) E) (2, – 6)

3. $C \notin [AB]$ $C \in AB$ A(2, 3), B(4, –2)

$\frac{|AC|}{|BC|} = \frac{3}{2}$

$\Rightarrow C(x, y) = ?$

A) (8, –12) B) (6, –12) C) (6, – 7)

D) (8, – 7) E) (4, – 7)

4. $C \notin [AB]$ $C \in AB$ A(4, 2), B(7, – 4)

$\frac{|AC|}{|BC|} = \frac{2}{5}$

$\Rightarrow C(x, y) = ?$

A) (2, 6) B) (2, 4) C) (4, – 4)

D) (6, – 4) E) (– 4, 4)

5. $C \in [AB]$ A(–4, 5), B(–1, 14)

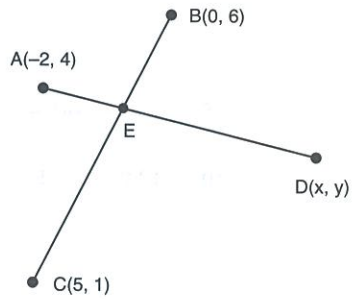
$\frac{|AC|}{|BC|} = 2$

$\Rightarrow C(x, y) = ?$

A) (– 2, 11) B) (– 3, 11) C) (– 2, 6)

D) (– 3, 6) E) (6, – 3)

6.



$3|EB| = 2|EC|$

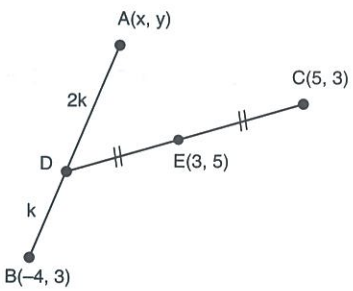
$3|AE| = |ED|$

$\Rightarrow D(x, y) = ?$

A) (6, 4) B) (6, 6) C) (14, 6)

D) (14, 4) E) (8, 6)

7.



$2|DB| = |AD|$

$|DE| = |EC|$

$\Rightarrow A(x, y) = ?$

A) (7, 11) B) (7, 15) C) (11, 11)

D) (11, 15) E) (7, 7)

8. $C \notin [AB]$ $C \in AB$ A(3, 4), B(8, –1)

$\frac{|AC|}{|BC|} = \frac{2}{3}$

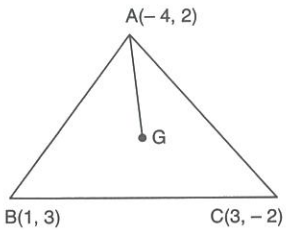
$\Rightarrow C(x, y) = ?$

A) (5, 2) B) (5, 5) C) (2, 5)

D) (– 7, 10) E) (– 7, 14)

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

9.



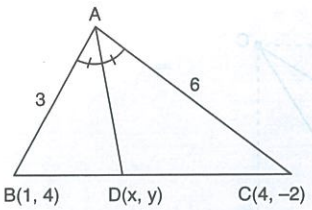
G, ABC üçgeninin ağırlık merkezi

G, the center of gravity of ABC triangle

$\Rightarrow |AG| = ?$

A) $\sqrt{39}$ B) 5 C) $\sqrt{17}$ D) 4 E) $\sqrt{10}$

10.



$m(\widehat{BAD}) = m(\widehat{DAC})$

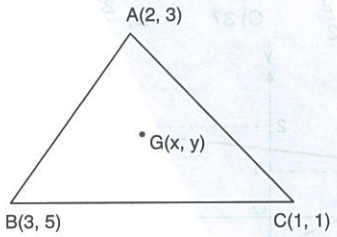
$2|AB| = |AC| = 6$ br

$\Rightarrow D(x, y) = ?$

A) (2, 0) B) (3, 0) C) (4, 1)

D) (2, 2) E) (2, – 2)

11.



G, ABC üçgeninin ağırlık merkezi

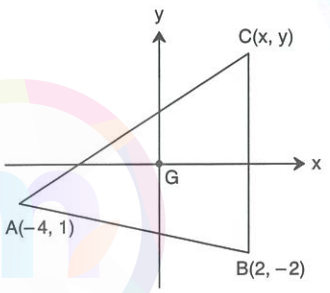
G, the center of gravity of ABC triangle

$\Rightarrow G(x, y) = ?$

A) (2, 4) B) (1, 3) C) $\left(2, \frac{9}{2}\right)$

D) $\left(3, \frac{5}{3}\right)$ E) (2, 3)

12.



G, ABC üçgeninin ağırlık merkezi

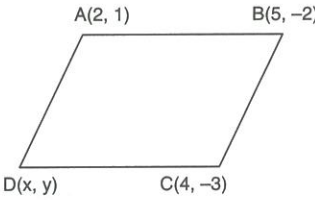
G, the center of gravity of ABC triangle

$\Rightarrow C(x, y) = ?$

A) (1, 1) B) (2, 1) C) (1, 2)

D) (2, 3) E) (2, 2)

13.



ABCD paralelkenar

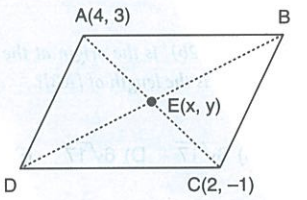
ABCD parallelogram

$\Rightarrow D(x, y) = ?$

A) (1, 0) B) (–1, 2) C) (0, 2)

D) (–2, 0) E) (2, 1)

14.



ABCD paralelkenar

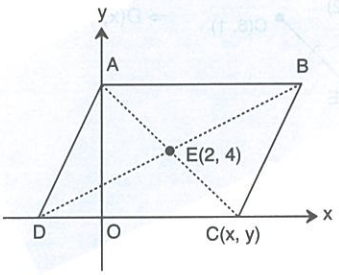
ABCD parallelogram

$\Rightarrow E(x, y) = ?$

A) (3, 0) B) (3, 1) C) (1, 0)

D) (2, 2) E) (3, –1)

15.



ABCD paralelkenar

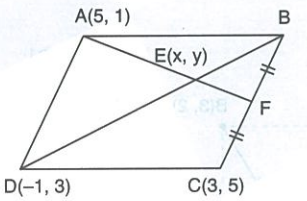
ABCD parallelogram

$\Rightarrow C(x, y) = ?$

A) (3, 0) B) (4, 0) C) (6, 0)

D) (8, 0) E) (10, 0)

16.



ABCD paralelkenar

ABCD parallelogram

$|BF| = |FC|$

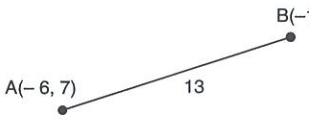
$\Rightarrow E(x, y) = ?$

A) (2, 3) B) $\left(\frac{17}{3}, 3\right)$ C) $\left(\frac{8}{3}, 3\right)$

D) $\left(\frac{17}{3}, 2\right)$ E) $\left(\frac{8}{3}, 2\right)$

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

1.



$|AB| = 13$ br

$\Rightarrow \sum a = ?$

A) 14 B) 12 C) 8 D) 7 E) 5

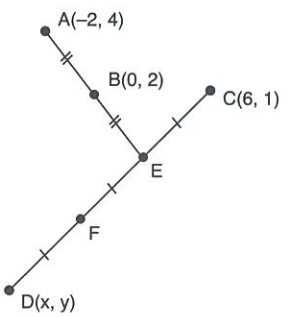
2. A(2a + 3b, 1), B(4, a + 2b)

[AB] nin orta noktası orjin olduğuna göre, |AB| uzunluğu kaç br dir?

Since A(2a + 3b, 1) and B(4, a + 2b) is the origin at the center point of AB, then how many unit is the length of [AB]?

A) $\sqrt{17}$ B) $2\sqrt{17}$ C) $3\sqrt{17}$ D) $6\sqrt{17}$ E) $5\sqrt{17}$

3.



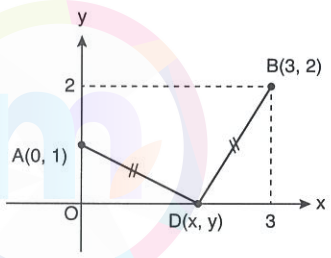
$|AB| = |BE|$

$|CE| = |EF| = |FD|$

$\Rightarrow D(x, y) = ?$

A) (– 8, – 2) B) (– 6, – 1) C) (– 8, 0)
D) (– 6, 0) E) (– 6, – 2)

4.

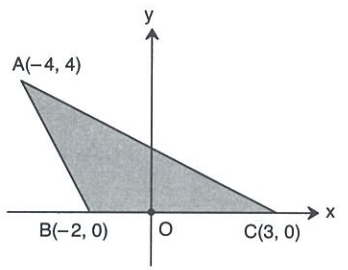


$|AD| = |DB|$

$\Rightarrow D(x, y) = ?$

A) (– 2, 0) B) (– 1, 0) C) (0, 0) D) (1, 0) E) (2, 0)

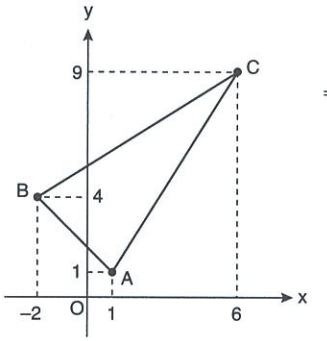
5.



$\Rightarrow A(ABC) = ?$

A) 20 B) 16 C) 12 D) 10 E) 4

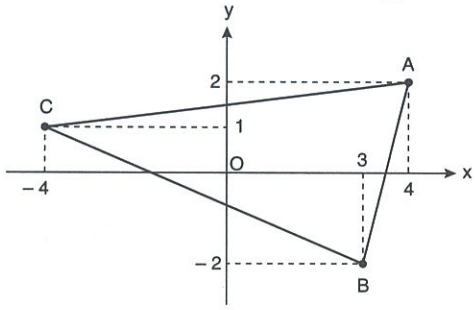
6.



$\Rightarrow A(ABC) = ?$

A) 39 B) $\frac{39}{2}$ C) 37 D) $\frac{23}{2}$ E) 41

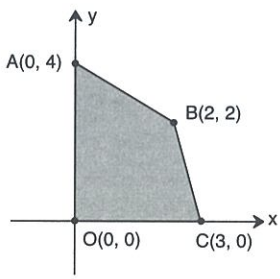
7.



$\Rightarrow A(ABC) = ?$

A) $\frac{21}{2}$ B) 27 C) 29 D) 31 E) $\frac{31}{2}$

8.



$\Rightarrow A(ABCO) = ?$

A) 15 B) 12 C) 9 D) 7 E) 6

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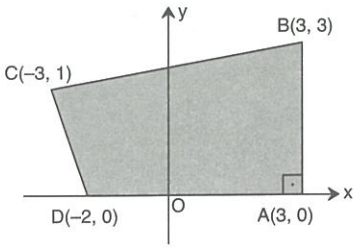
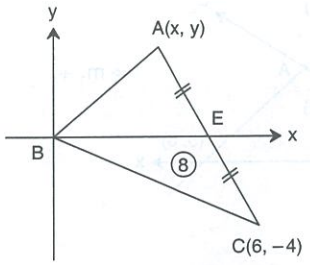
9.



⇒ A(ABCD) = ?

A) 12 B) $\frac{23}{2}$ C) 10 D) $\frac{19}{2}$ E) 8

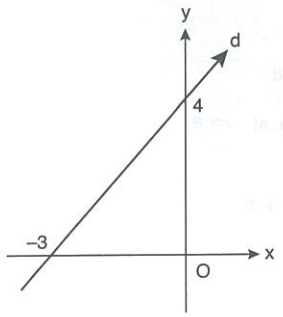
10.



|AE| = |EC|
A(BEC) = 8 br²
⇒ A(x, y) = ?

A) (2, 2) B) (2, 4) C) (4, 2)
D) (4, 4) E) (4, 6

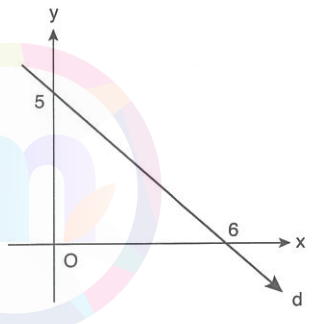
11.



⇒ m_d = ?

A) $\frac{4}{3}$ B) $-\frac{4}{3}$ C) $\frac{3}{4}$ D) $-\frac{3}{4}$ E) $\frac{3}{5}$

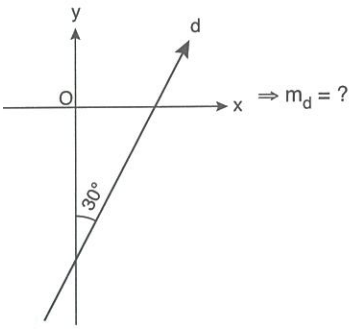
12.



⇒ m_d = ?

A) $\frac{6}{5}$ B) $-\frac{6}{5}$ C) $\frac{5}{6}$ D) $-\frac{5}{6}$ E) 6

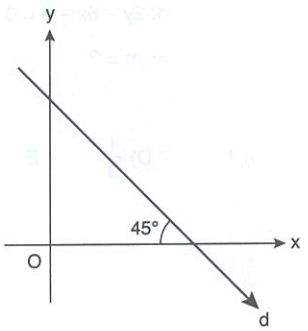
13.



⇒ m_d = ?

A) $\frac{\sqrt{3}}{3}$ B) $\sqrt{3}$ C) $\frac{1}{2}$ D) 2 E) 1

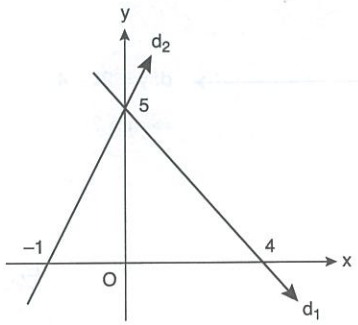
14.



⇒ m_d = ?

A) 1 B) $\sqrt{2}$ C) $\frac{-\sqrt{2}}{2}$ D) $\frac{1}{2}$ E) –1

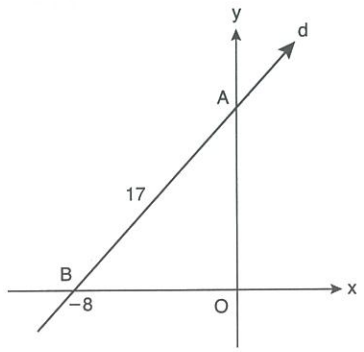
15.



⇒ $m_1 + m_2$ = ?

A) $\frac{25}{4}$ B) $-\frac{15}{4}$ C) $\frac{15}{4}$ D) $\frac{4}{15}$ E) $-\frac{4}{15}$

16.



|AB| = 17br
⇒ m_d = ?

A) $\frac{8}{15}$ B) $\frac{17}{8}$ C) $\frac{15}{8}$ D) $\frac{8}{17}$ E) $-\frac{15}{8}$

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1. $\overleftrightarrow{\quad}$ d: $2x - 4y + 5 = 0$

$\Rightarrow m = ?$

A) -2 B) $-\frac{1}{2}$ C) 1 D) $\frac{1}{2}$ E) 2

2. $\overleftrightarrow{\quad}$ d: $2y - 6x - 5 = 0$

$\Rightarrow m = ?$

A) -3 B) $-\frac{1}{3}$ C) 1 D) $\frac{1}{3}$ E) 3

3. $\overleftrightarrow{\quad}$ d: $y = 2x - 4$

$\Rightarrow m = ?$

A) -2 B) $-\frac{1}{2}$ C) 1 D) $\frac{1}{2}$ E) 2

4. A(2, 3) B(–4, 1) $\Rightarrow m_{AB} = ?$

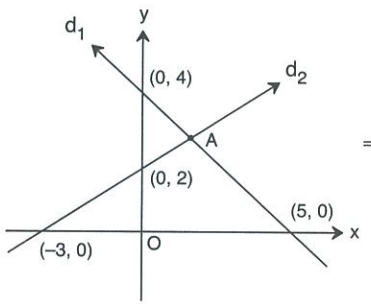
A) -3 B) $-\frac{1}{3}$ C) 1 D) $\frac{1}{3}$ E) 3

5. A(2, 1) B(3, a) $m_{AB} = 5$

$\Rightarrow a = ?$

A) 8 B) 6 C) 5 D) 4 E) 3

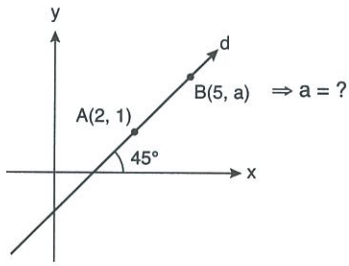
6.



$\Rightarrow m_1 + m_2 = ?$

A) $-\frac{8}{15}$ B) $-\frac{4}{15}$ C) $-\frac{2}{15}$ D) $\frac{2}{15}$ E) $\frac{8}{15}$

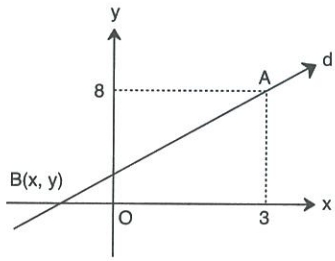
7.



$\Rightarrow a = ?$

A) 5 B) 4 C) 3 D) 2 E) 1

8.



$m_d = 2$

$\Rightarrow B(x, y) = ?$

A) $(-4, 0)$ B) $\left(-\frac{5}{2}, 0\right)$ C) $(-1, 0)$

D) $(-5, 0)$ E) $\left(-\frac{1}{2}, 0\right)$

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9.

$m_d = 2$

$d : ax + by + c = 0$

$\Rightarrow d = ?$

A) $y = 2x$ B) $y = 2x - 4$

C) $y = 2x + 6$ D) $x - 2y + 6 = 0$

E) $6x - 2y - 5 = 0$

10.

$m_d = 4$

$d: ax + by + c = 0$

$\Rightarrow d = ?$

A) $y + 2x - 5 = 0$ B) $y - 3x + 4 = 0$

C) $y - 3x - 9 = 0$ D) $y - 3x + 3 = 0$

E) $y - 4x - 11 = 0$

11.

$d : ax + by + c$

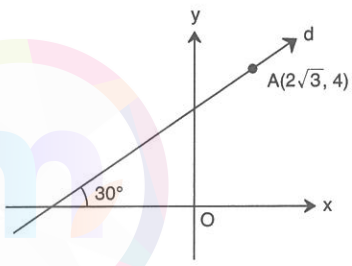
$\Rightarrow d = ?$

A) $y + x - 4 = 0$ B) $x - y - 6 = 0$

C) $y - x + 5 = 0$ D) $2x - y + 6 = 0$

E) $y - x - 1 = 0$

12.



$d: ax + by + c = 0$

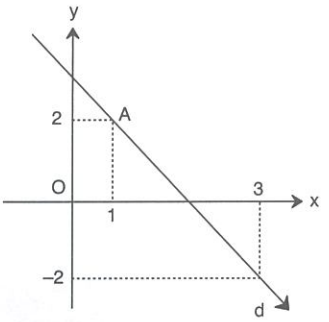
$\Rightarrow d = ?$

A) $y\sqrt{3} - x + 2\sqrt{3} = 0$ B) $y\sqrt{3} - x - 2\sqrt{3} = 0$

C) $y - \sqrt{3}x = 0$ D) $\sqrt{3}x + y = 0$

E) $\sqrt{3}x - y + 4 = 0$

13.



$d: ax + by + c = 0$

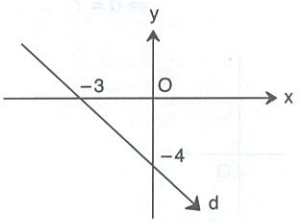
$\Rightarrow d = ?$

A) $y + 2x = 0$ B) $y + 2x - 4 = 0$

C) $2y - x - 2 = 0$ D) $y + 2x + 4 = 0$

E) $2x - y - 6 = 0$

14.



$d: ax + by + c = 0$

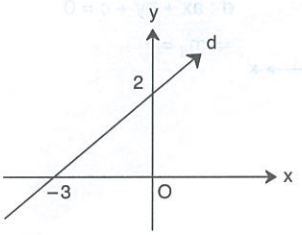
$\Rightarrow d = ?$

A) $4x - 3y + 12 = 0$ B) $3x + 4y - 12 = 0$

C) $4x + 3y + 12 = 0$ D) $4x + 3y + 24 = 0$

E) $3x + 4y + 24 = 0$

15.



$d: ax + by + c = 0$

$\Rightarrow d = ?$

A) $3y - 2x + 12 = 0$ B) $2x - 3y - 6 = 0$

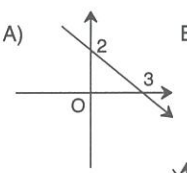
C) $2x + 3y - 6 = 0$ D) $3x + 2y - 6 = 0$

E) $2x - 3y + 6 = 0$

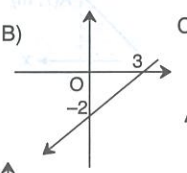
16. d: $2x - 3y + 6 = 0$ doğrusunun grafiği aşağıdakilerden hangisidir?

Which is the graph of d: $2x - 3y + 6 = 0$ line amongst the followings ones?

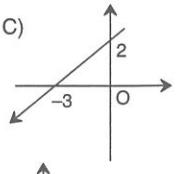
A)



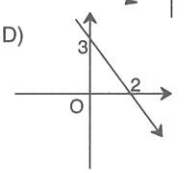
B)



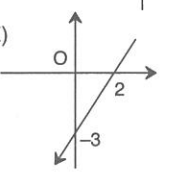
C)



D)



E)



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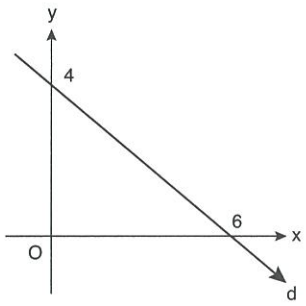
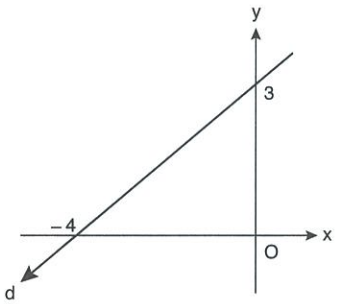
1.



d : ax + by + c = 0
⇒ d = ?

A) 2x + y = 6 B) x + 3y = 12 C) 2x + 3y = 12
D) 2x + 3y = 6 E) 3x + 2y = 12

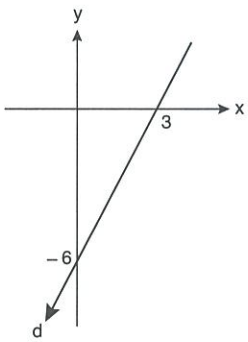
2.



d : ax + by + c = 0
⇒ d = ?

A) 3x + 4y = 12 B) –3x + 4y = 12 C) 4x + 3y = 12
D) 4x – 3y = 12 E) – 3x – 4y = 12

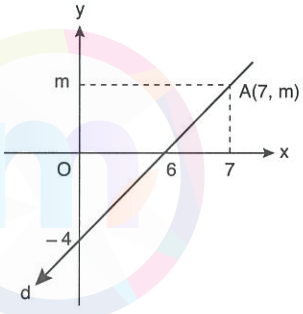
3.



d : ax + by + c = 0
⇒ m_d = ?

A) 2 B) 5 C) 7 D) – 7 E) – 5

4.



⇒ m = ?

A) $\frac{2}{5}$ B) $\frac{3}{2}$ C) $-\frac{2}{3}$ D) $\frac{2}{3}$ E) $\frac{3}{4}$

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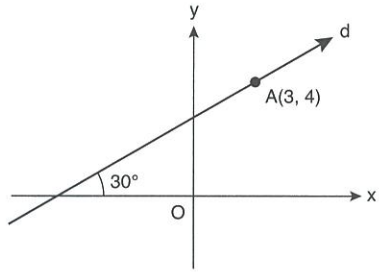
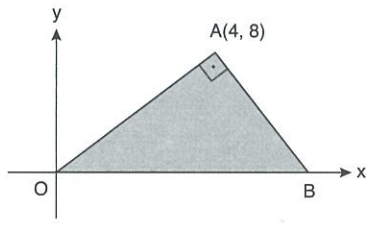
5.



d : ax + by + c = 0
⇒ d = ?

A) $\sqrt{3}x + y + 3 = 0$ B) $\sqrt{3}y - x - 4\sqrt{3} = 0$
C) $\sqrt{3}y - x - 4\sqrt{3} = 3$ D) $\sqrt{3}y - x - 4\sqrt{3} = -3$
E) $\sqrt{3}y + \sqrt{3}x + 4\sqrt{3} - 3 = 0$

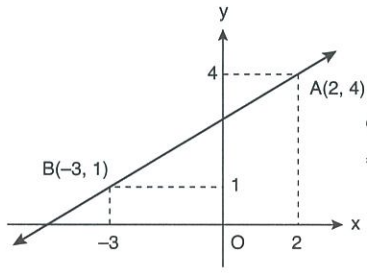
6.



⇒ A(AOB) = ?

A) 20 B) 40 C) 80 D) 100 E) 160

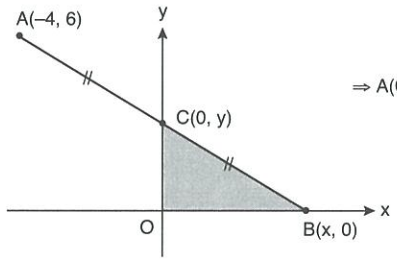
7.



d : ax + by + c = 0
⇒ d = ?

A) 5y + 3x – 14 = 0 B) 3y + 5x – 14 = 0
C) 3y – 5x – 14 = 0 D) 5y – 3x – 14 = 0
E) – 5y – 3x – 14 = 0

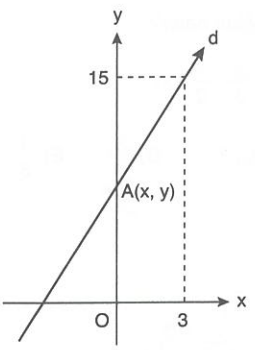
8.



⇒ A(COB) = ?

A) 4 B) 6 C) 16 D) 12 E) 18

9.



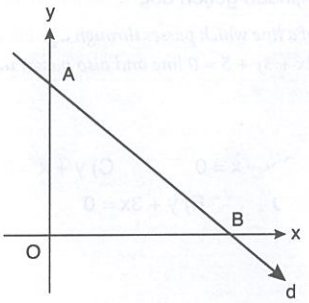
$m_d = 2$

A(x, y)

$\Rightarrow y = ?$

A) 4 B) 6 C) 8 D) 9 E) 10

10.

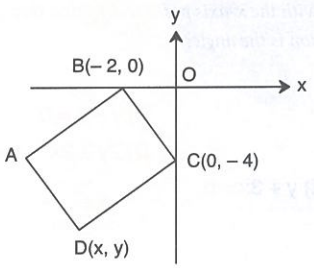


d: $4x + 3y - 12 = 0$

$\Rightarrow |AB| = ?$

A) 3 B) 4 C) 5 D) 6 E) 10

11.



ABCD dikdörtgen

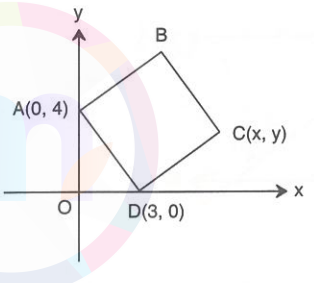
ABCD rectangle

$A(ABCD) = 40\ br^2$

$\Rightarrow D(x, y) = ?$

A) (8, 8) B) (– 2, – 6) C) (– 6, – 8)
D) (– 4, – 8) E) (– 8, – 8)

12.



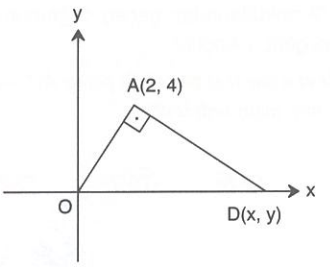
ABCD kare

ABCD square

$\Rightarrow C(x, y) = ?$

A) (5, 3) B) (4, 8) C) (7, 3)
D) (6, 4) E) (7, 8)

13.

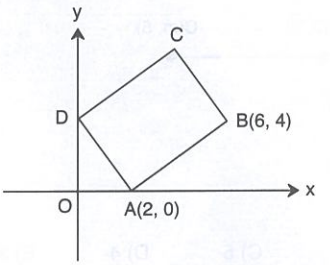


$[OA] \perp [AD]$

$\Rightarrow D(x, y) = ?$

A) (6, 0) B) (8, 0) C) (10, 0)
D) (12, 0) E) (14, 0)

14.



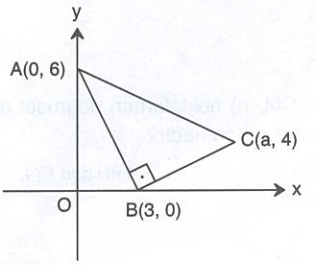
ABCD dikdörtgen

ABCD rectangle

$\Rightarrow A(ABCD) = ?$

A) 24 B) 18 C) 16 D) 15 E) 12

15.

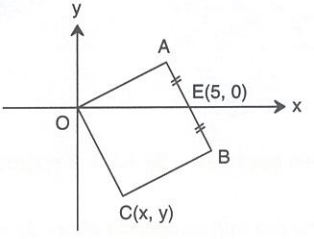


$[AB] \perp [BC]$

$\Rightarrow a = ?$

A) 13 B) 11 C) 8 D) 7 E) 5

16.



OABC kare

OABC square

$|AE| = |EB|$

$\Rightarrow C(x, y) = ?$

A) (1, – 2) B) (2, – 4) C) (2, – 2)
D) (– 4, – 2) E) $(\sqrt{5}, -2\sqrt{5})$

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

1. A(3, –1) ve B(k, 3) noktalarından geçen doğrunun eğim açısı 45° olduğuna göre, k kaçtır?

Since the slope angle of a line that passes the points A(3, –1) and B(k, 3) is 45°, then, how many unit is k?

A) 1 B) 3 C) 5 D) 7 E) 8

2. A(1, 2) B(3, 3) C(m, 5)

A, B, C doğrusal

A, B, C linear

$\Rightarrow m = ?$

A) 7 B) 6 C) 5 D) 4 E) 3

3. A(2, 1), B(3, m) ve C(4, n) noktalarının doğrusal olması için m ve n arasındaki bağıntı nedir?

In order to be linear the points A(2, 1), B(3, m) and C(4, n) what is the relation between m and n?

A) $n = 2m - 1$ B) $n = 2m + 1$ C) $m = 2n - 1$
D) $n = m + 1$ E) $m = 2n + 1$

4. A(2, –1) noktasından geçen $ax - 3y + 2 = 0$ doğrusunun eğimi nedir?

What is the slope of the line with an equation of $ax - 3y + 2 = 0$ which intersects the A(2, –1) point?

A) $-\frac{5}{8}$ B) $-\frac{5}{6}$ C) 1 D) $\frac{3}{2}$ E) $\frac{5}{2}$

5. $\frac{2x}{3} - \frac{y}{2} = 3$ doğrusunun eğimi nedir?

What is the slope of the line $\frac{2x}{3} - \frac{y}{2} = 3$?

A) $-\frac{4}{3}$ B) $-\frac{3}{4}$ C) 1 D) $\frac{3}{4}$ E) $\frac{4}{3}$

6. $2x + 3y + 5 = 0$ doğrusu üzerinde apsisi ordinatına eşit olan noktadan ve orijinden geçen doğru denklemi nedir?

What is the equation of a line which passes through a point, equals to the abscissa at the $2x + 3y + 5 = 0$ line and also passes through the origin?

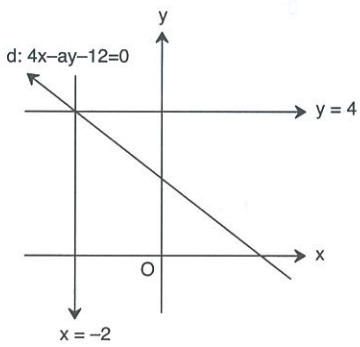
A) $y - x + 2 = 0$ B) $y - x = 0$ C) $y + x = 0$
D) $y - 2x = 0$ E) $y + 3x = 0$

7. A(a, 2) ve B(1, – a) noktalarından geçen ve x ekseni ile pozitif yönde 135° açı yapan doğru denklemi nedir?

A(a, 2) and B(1, –a) with the x-axis positive direction through the points 135° the equation is the angle?

A) $y + x - 3 = 0$ B) $y - x = 0$
C) $y + x = 0$ D) $2y + 2x - 3 = 0$
E) $y + 3x = 0$

8.



$\Rightarrow m_d = ?$

A) $\frac{3}{5}$ B) $-\frac{3}{5}$ C) –1 D) $-\frac{4}{5}$ E) $-\frac{7}{4}$

PUZA YAYINLARI

9. $d_1: 2x - 4y + 5 = 0$ $\quad d_1 \,//\, d_2$

$d_2: 3x + ay - 4 = 0$ $\quad \Rightarrow a = ?$

A) -6 B) -3 C) -1 D) 1 E) 3

10. $d_1: 2x - y + 3 = 0$ doğrusuna paralel olan ve (3, 1) noktasından geçen doğru denklemi nedir?

What is the equation of a line that is parallel to $d_1: 2x - y + 3 = 0$ line and intersects the point (3, 1)?

A) $2x + y - 5 = 0$ B) $2x - y - 5 = 0$

C) $2x - y + 10 = 0$ D) $2x - y - 10 = 0$

E) $4x - 2y - 5 = 0$

11. Pozitif yönde x ekseni ile 45° açı yapan d_1 doğrusuna paralel olan ve (0, –2) noktasından geçen denklemi nedir?

What is the equation of a line that makes a 45° angle to the x axis at the positive direction, that is parallel to d_1 line and intersects the (0, –2) point?

A) $x - y + 4 = 0$ B) $y - x - 3 = 0$

C) $x - y - 2 = 0$ D) $2x - y - 2 = 0$

E) $x - 2y - 4 = 0$

12. $d_1: x + ay - 4 = 0$ $\quad d_1 \perp d_2$

$d_2: 3x - 2y + 3 = 0$ $\quad \Rightarrow a = ?$

A) $\frac{3}{2}$ B) 1 C) $\frac{2}{3}$ D) $-\frac{2}{3}$ E) $-\frac{3}{2}$

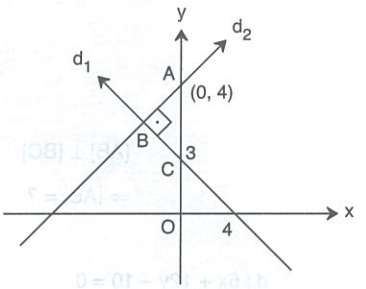
13. $d_1: 3x - y + 4 = 0$ doğrusuna dik olan ve (3, 0) noktasından geçen doğru denklemi nedir?

What is the equation of a line that is perpendicular to the $d_1: 3x - y + 4 = 0$ line and intersects the point (3, 0)?

A) $y = 2x - 9$ B) $y = x - 3$ C) $y = 2x - 3$

D) $y = 3x + 1$ E) $3y + x - 3 = 0$

14.



$[AB] \perp [BC]$

$\Rightarrow d_2 = ?$

A) $2y - 3x - 1 = 0$ B) $y - 2x - 6 = 0$

C) $x - y + 1 = 0$ D) $x - y + 2 = 0$

E) $3y - 4x - 12 = 0$

15. $d_1: 2x - y + 5 = 0$

$d_2: 3x + 2y + 4 = 0$

d_1 ve d_2 doğrularının kesim noktasını bulunuz?

Find the intersecting point of d_1 and d_2 lines?

A) $(-2, 1)$ B) $(2, 1)$ C) $(-2, -1)$

D) $(1, -2)$ E) $(-1, 2)$

16. $d_1: x + 2y - 6 = 0$

$d_2: 2x - 3y + 2 = 0$

$d_3: ax + 4y - 12 = 0$

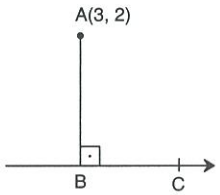
Doğruları sabit bir noktadan geçtiğine göre d_3 doğrusunun eğimi nedir?

While the d_1, d_2 and d_3 lines pass through a constant point, what is the slope of the d_3 line?

A) $-\frac{1}{4}$ B) $-\frac{1}{2}$ C) 1 D) $\frac{1}{2}$ E) $\frac{1}{4}$

PUZA YAYINLARI

1.

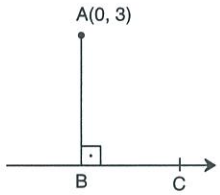


[AB] ⊥ [BC]

⇒ |AB| = ?

A) $\frac{19}{5}$ B) 3 C) $\frac{12}{5}$ D) $\frac{4}{5}$ E) $\frac{3}{5}$

2.

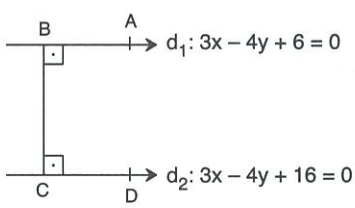


[AB] ⊥ [BC]

⇒ |AB| = ?

A) 8 B) 6 C) 4 D) 2 E) 1

3.



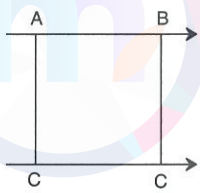
[AB] ⊥ [BC]

[BC] ⊥ [CD]

⇒ |BC| = ?

A) 6 B) 5 C) 4 D) 2 E) 1

4.



ABCD kare

ABCD square

⇒ A(ABCD) = ?

A) 1 B) 4 C) 9 D) 16 E) 25

5. d_1: 2x – 3y + 14 = 0 $d_1 // d_2$

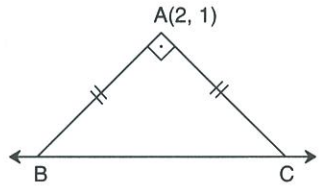
d_2: mx – 6y + 2 = 0

Bu iki doğru arasındaki uzaklık kaç br'dir?

How many unit is the distance between these two lines?

A) $2\sqrt{13}$ B) $\sqrt{13}$ C) $\frac{2\sqrt{13}}{3}$ D) $2\sqrt{3}$ E) $\frac{\sqrt{3}}{2}$

6.



[BA] ⊥ [AC]

|AB| = |AC|

⇒ A(ABC) = ?

A) 4 B) 9 C) 16 D) 25 E) 36

7. A(1, 2) noktasının $y=\frac{2}{3}x+1$ doğrusuna olan uzaklığı kaç br'dir?

How many unit is the distance of A(1, 2) point to $y=\frac{2}{3}x+1$ *line?*

A) $\frac{\sqrt{13}}{2}$ B) $\frac{4\sqrt{13}}{13}$ C) $\frac{\sqrt{13}}{4}$

D) $\frac{3\sqrt{13}}{13}$ E) $\frac{\sqrt{13}}{13}$

8. $\left.\begin{matrix}3x-4y+2=0\\4x+3y-6=0\end{matrix}\right\}$

Doğrularına eşit uzaklıkta bulunan doğru denklemlerinden biri aşağıdakilerden hangisidir?

Which one of the followings is the one of equations of the line that is the same distance to the lines?

A) 7x – y – 6 = 0 B) 7x + y – 4 = 0

C) x – y + 4 = 0 D) x + y – 6 = 0

E) 7x – y – 4 = 0

PUZA YAYINLARI

9. $d_1: x + 2y - 4 = 0$

$d_2: 3x - y + 4 = 0$

Doğruları arasındaki dar açının tanjantı kaçtır?

What is the tangential of the acute angle between the lines?

A) -7 B) -3 C) $\frac{3}{2}$ D) 3 E) 7

10. $d_1: x - y + 4 = 0$

$d_2: -\sqrt{3}x + y - 4 = 0$

Doğruları arasındaki geniş açı kaçtır?

What is the measure of the obtuse angle between the lines?

A) 165° B) 150° C) 135° D) 120° E) 110°

11. $d_1: y + x = 0$

$d_2: y + \sqrt{3}x + 5 = 0$

Doğruları arasındaki dar açı kaçtır?

What is the tangential of the acute angle between the lines?

A) 15° B) 30° C) 45° D) 60° E) 75°

12. $d_1: ax + y + 4 = 0$

$d_2: 2x - y + 1 = 0$

Doğruları arasındaki dar açının tanjantı 2 olduğuna göre a'nın alacağı değer aşağıdakilerden hangisidir?

While the tangential of the acute angle between the lines is 2, which one of the following can "a" take as a value?

A) -3 B) $\frac{4}{3}$ C) 1 D) 2 E) $\frac{5}{2}$

13. $x(2k + 3) + y(k - 2) + 6 - 3k = 0$

Doğrularının kesim noktasını bulunuz?

Find the intersecting point of the lines?

A) $\left(\frac{1}{7}, 0\right)$ B) (0, 1) C) (0, 3)

D) $\left(\frac{1}{7}, 2\right)$ E) $\left(\frac{1}{7}, -2\right)$

14. $(k + 1)x + (k - 2)y + k - 3 = 0$

Doğrularının kesim noktası ve orijinden geçen doğru denklemi aşağıdakilerden hangisidir?

Which one of the following is the equation of line that passes through the origin and the intersecting / breakpoint of lines?

A) $y - 4x = 0$ B) $y + 2x = 0$ C) $x - 4y = 0$

C) $x + 3y = 0$ E) $y + 4x = 0$

15. $3x - 4y + 3 = 0$ ve $4x + 3y - 2 = 0$ doğrularının açıortay denklemlerinden birinin denklemi aşağıdakilerden hangisidir?

Which one of the following is the equation of angle bisector equations of $3x - 4y + 3 = 0$ and $4x + 3y - 2 = 0$ lines?

A) $x - 7y - 6 = 0$ B) $4x - 3y + 3 = 0$

C) $7y + x - 5 = 0$ D) $y + 7x - 4 = 0$

E) $3x - 4y - 1 = 0$

16. $5x - 12y + 3 = 0$ ve $5y + 12x - 4 = 0$ doğrularının açıortay denklemlerinden birinin denklemi aşağıdakilerden hangisidir?

Which one of the following is the equation of angle bisector equations of $5x - 12y + 3 = 0$ ve $5y + 12x - 4 = 0$ lines?

A) $-17x + 7y + 1 = 0$ B) $7x - 4y + 1 = 0$

C) $5x - 12y - 1 = 0$ D) $x + y - 1 = 0$

E) $5x - 12y + 4 = 0$

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

1. x = t + 1 ve y = 2t – 4 parametrik denklemleriyle verilen noktaların analitik düzlemdeki görüntüsü nedir?

What is the image of points that are given by parametric equations x = t + 1 and y = 2t – 4 at the analytical plane?

A) 2x + y – 4 = 0 B) 4x – y + 4 = 0
C) 2x – y + 4 = 0 D) y – 2x + 6 = 0
E) y – 2x – 2 = 0

2. A(2a – 1, 3a + 2) noktalarının geometrik yer denklemi aşağıdakilerden hangisidir?

Which one of the followings is the geometrical location equation of the A(2a – 1, 3a + 2) points?

A) 2x – 5y + 4 = 0 B) 2x + 3y – 4 = 0
C) 3x – 2y + 7 = 0 D) 2x – 3y + 4 = 0
E) x + 2y – 6 = 0

3. A(1, 2) ve B(6, – 3) noktaları veriliyor. C(x, 0) noktası için min(|AC| + |BC|) yapan x değeri nedir?

A(1, 2) and B(6, – 3) points are given. What is the x value that makes min(|AC| + |BC|) for the C(x, 0) point?

A) 2 B) 3 C) 4 D) 5 E) 6

4. A(–3, 18) ve B(12, 3) noktaları veriliyor. C(x, 0) olmak üzere max(|AC| – |CB|) için x değeri nedir?

A(–3, 18) and B(12, 3) points are given. What is the x value that makes max(|AC| – |CB|) for the C(x, 0) point?

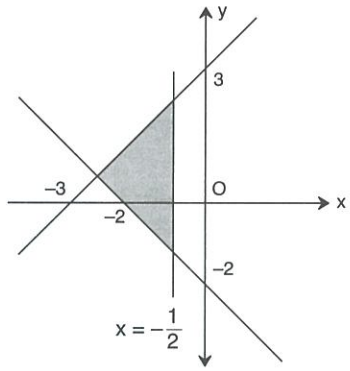
A) 10 B) 13 C) 15 D) 17 E) 20

5. A(2, 3) ve B(3, 4) noktaları veriliyor. C(x, 0) olmak üzere max(|BC| – |AC|) için x değeri nedir?

A(2, 3) and B(3, 4) points are given. What is the x value that makes max(|BC| – |AC|) for the C(x, 0) point?

A) 1 B) $\sqrt{2}$ C) 2 D) $2\sqrt{2}$ E) 4

6.



A) $x - y + 6 \geq 0$
$x - y - 2 \geq 2$
$x > -\frac{1}{2}$

B) $x - y + 3 \leq 0$
$x + y \leq 0$
$x \geq -\frac{1}{2}$

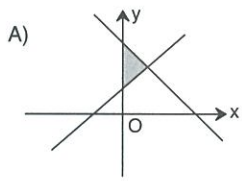
C) $x - y + 1 \geq 0$
$x + y > 3$
$x \leq 0$

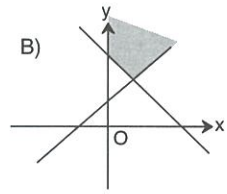
D) $x - 2y + 6 \leq 0$
$x - y + 2 \geq 0$
$x \geq -1$

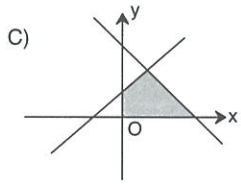
E) $y - x - 3 \leq 0$
$x + y + 2 \geq 0$
$x \leq -\frac{1}{2}$

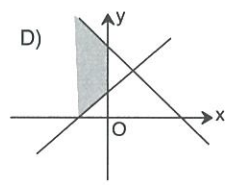
7. Analitik düzlemde $y \geq x + 2$, $y \leq 4 - x$ ve $x \geq 0$ eşitsizliklerini sağlayan grafik aşağıdakilerden hangisidir?

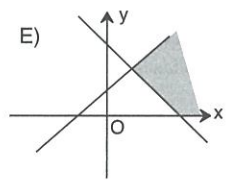
Which one of the followings is the graph that proves the $y \geq x + 2$, $y \leq 4 - x$ and $x \geq 0$ inequalities at the analytical plane?

A)


B)


C)


D)


E)


PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

8. $y \le 0$, $x \ge -4$ ve $3x - y + 6 \le 0$ eşitsizlik sistemini gerçekleyen noktaların oluşturduğu bölgenin alanı kaç br^2'dir?

How many unit^2 is the surface area of the sector that proves the $y \le 0$, $x \ge -4$ and $3x - y + 6 \le 0$ inequalities?

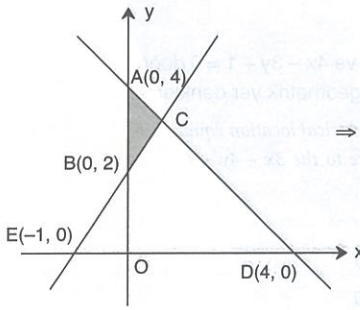
A) 6 B) 10 C) 18 D) 20 E) 24

9. Analitik düzlemde, $(y + 1)(x - 2) - xy = 0$ bağıntısı ile verilen doğru denkleminin eğimi kaçtır?

What is the slope of line equation given with the $(y + 1)(x - 2) - xy = 0$ relationship at the analytical plane?

A) -2 B) $-\frac{1}{2}$ C) 1 D) $\frac{1}{2}$ E) 2

10.



$\Rightarrow$ A(ABC) = ?

A) $\frac{4}{9}$ B) $\frac{2}{3}$ C) 1 D) 2 E) $\frac{7}{3}$

11. A(2, 3) ve B(4, 5) noktaları veriliyor. [AB] doğru parçasının orta dikme doğru denklemi nedir?

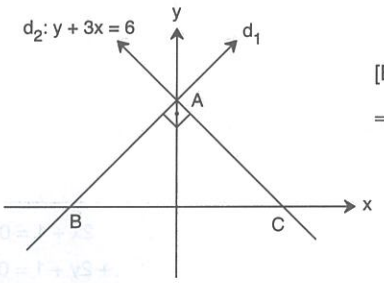
A(2, 3) and B(4, 5) points are given. What is the equation of the perpendicular bisector of AB line segment?

A) $y - x - 4 = 0$ B) $y + x - 1 = 0$

C) $y + x - 7 = 0$ D) $y + x + 1 = 0$

E) $x - y - 1 = 0$

12.



[BA] $\perp$ [AC]

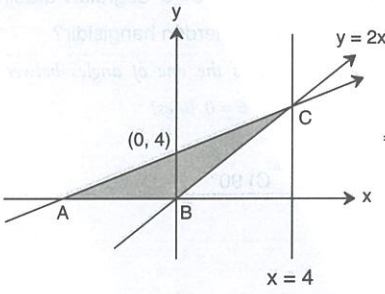
$\Rightarrow d_1 = ?$

A) $y - x - 6 = 0$ B) $y - x - 18 = 0$

C) $3y + x - 6 = 0$ D) $y - 3x - 6 = 0$

E) $3y - x - 18 = 0$

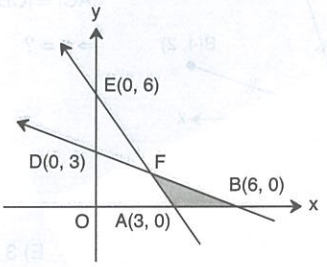
13.



$\Rightarrow$ A(ABC) = ?

A) 64 B) 32 C) 28 D) 24 E) 16

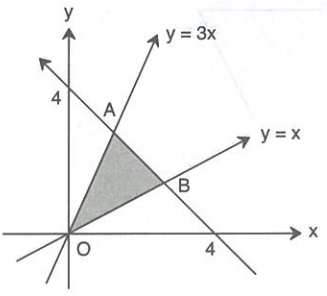
14.



$\Rightarrow$ A(AFB) = ?

A) 3 B) 4 C) 6 D) 9 E) 18

15.



$\Rightarrow$ A(AOB) = ?

A) 2 B) 4 C) 6 D) 8 E) 12

PUZA YAYINLARI

1. $(2-a)y + ax - a + 2 = 0$ doğrularının kesim noktasından geçen ve $2x - 4y + 5 = 0$ doğrusuna dik olan doğru denklemi nedir?

What is the equation of a line that is perpendicular to the $(2-a)y + ax - a + 2 = 0$ line and passes through the point that the lines $2x - 4y + 5 = 0$ intersect at?

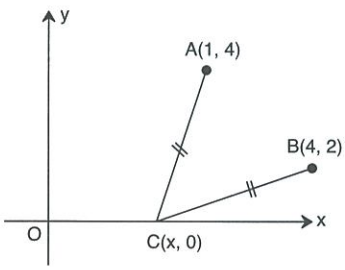
A) $2y - x - 1 = 0$ B) $y + 2x + 1 = 0$
C) $x + 2y - 1 = 0$ D) $x + 2y + 1 = 0$
E) $2y + x - 2 = 0$

2. $-y + x - 4 = 0$ ve $x + \sqrt{3}y - 6 = 0$ doğruları arasındaki açılardan bir tanesi aşağıdakilerden hangisidir?

Which one of the following is the one of angles between the $-y + x - 4 = 0$ ve $x + \sqrt{3}y - 6 = 0$ lines?

A) 120° B) 105° C) 90° D) 60° E) 25°

3.

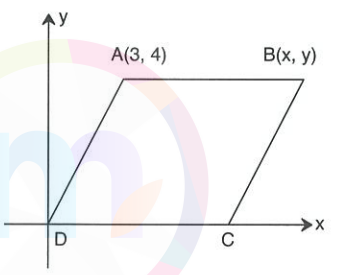


$|AC| = |CB|$

$\Rightarrow x = ?$

A) $\frac{1}{6}$ B) $\frac{1}{2}$ C) 1 D) 2 E) 3

4.



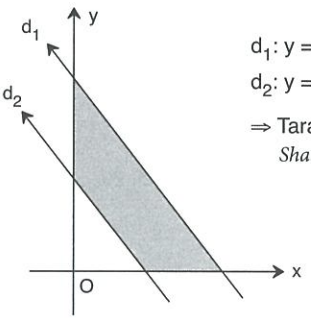
ABCD eşkenar dörtgen

ABCD rhombus

$\Rightarrow B(x, y) = ?$

A) (5, 4) B) (5, 3) C) (8, 3)
D) (8, 4) E) (10, 4)

5.



$d_1: y = -x + 8$

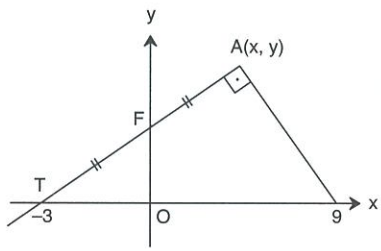
$d_2: y = -2x + 6$

$\Rightarrow$ Taralı alan kaç br^2 dir?

Shaded area = ?

A) 21 B) 23 C) 30 D) 42 E) 46

6.



$|AF| = |FT|$

$\Rightarrow x + y = ?$

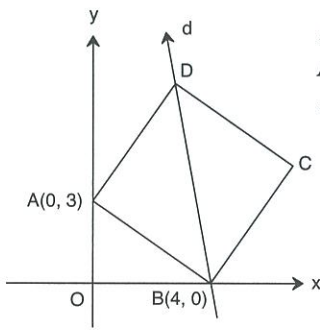
A) 12 B) 9 C) 8 D) 6 E) 4

7. $3x - 4y + 6 = 0$ ve $4x - 3y + 1 = 0$ doğrularına eşit uzaklıktaki noktaların geometrik yer denklemi nedir?

What is the geometrical location equation of the points that have the same distance to the $3x - 4y + 6 = 0$ and $4x - 3y + 1 = 0$ lines?

A) $x - y + 7 = 0$ B) $x - y + 1 = 0$
C) $x - y + 5 = 0$ D) $x - y - 1 = 0$
E) $7x - 7y + 8 = 0$

8.



ABCD kare

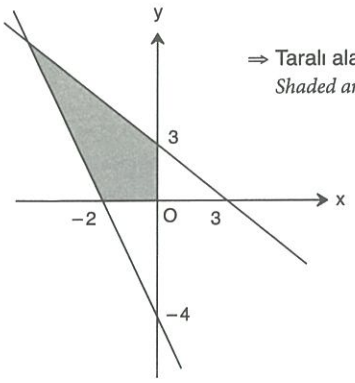
ABCD square

$\Rightarrow d: ax + by + c = ?$

A) $y - x + 4 = 0$ B) $y + x - 2 = 0$
C) $2x - y - 4 = 0$ D) $y + 7x - 28 = 0$
E) $2x - y + 2 = 0$

PUZA YAYINLARI

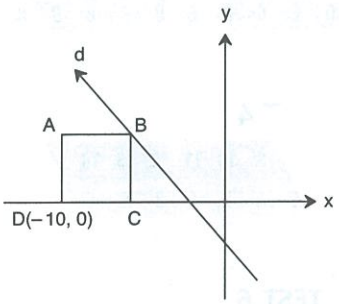
9.



⇒ Taralı alan kaç br^2 dir?
Shaded area = ?

A) 14 B) $\frac{41}{2}$ C) 22 D) $\frac{45}{2}$ E) 26

10.



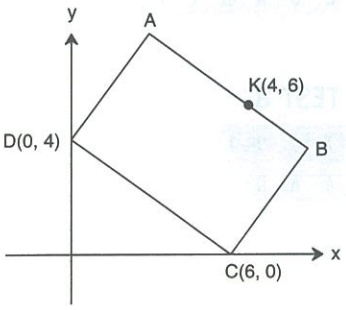
ABCD kare
ABCD square

d: $\frac{x}{2}+\frac{y}{2}=-1$

⇒ A(ABCD) = ?

A) 49 B) 36 C) 25 D) 16 E) 14

11.

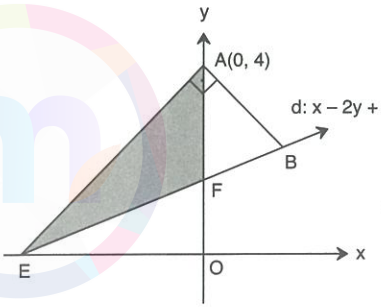


ABCD dikdörtgen
ABCD regtangle

⇒ A(ABCD) = ?

A) 36 B) 32 C) 28 D) 24 E) 14

12.

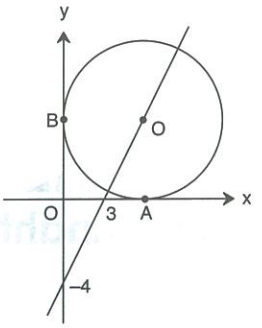


[EA] ⊥ [AB]

⇒ A(AFE) = ?

A) 2 B) 4 C) 8 D) $4\sqrt{5}$ E) $8\sqrt{5}$

13.



O merkezli dairenin alanı kaç br^2 dir?
How many unit^2 is the area of the circular region with a center O?

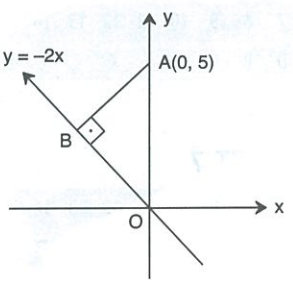
A) 169π B) 144π C) 100π D) 64π E) 36π

14. Analitik düzlemde eğimleri 3 ve $-\frac{1}{3}$ olan iki doğrunun açıortay doğrularından birinin eğimi aşağıdakilerden hangisidir?

Which one of the followings is the slope of the one of angle bisector lines that have the slope of 3 and -1/3 at the analytical plane?

A) $-\frac{1}{3}$ B) −1 C) $\frac{1}{2}$ D) 1 E) 3

15.

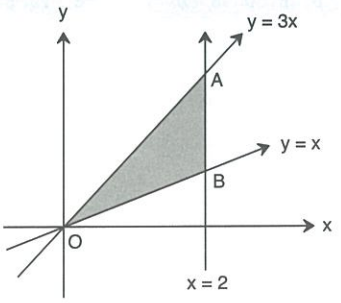


[AB] ⊥ [BO]

⇒ A(ABO) = ?

A) $\frac{1}{5}$ B) $\frac{\sqrt{5}}{5}$ C) 1 D) $\sqrt{5}$ E) 5

16.



⇒ A(AOB) = ?

A) 4 B) 16 C) 32 D) 36 E) 64

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ANALİTİK GEOMETRİ
Yanıt Anahtarı

ANALYTIC GEOMETRY-LINE
Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	A	C	A	B	C	A	B	C	A	C	E	B	C	B

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	E	A	A	A	D	D	E	C	D	E	B	B	B	B	B

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	B	E	E	D	B	E	D	B	B	A	D	B	E	C	C

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	E	E	D	B	C	B	C	A	E	C	B	B	C	E	C

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	A	D	D	C	D	B	D	C	E	C	C	C	D	B

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	A	A	B	E	B	D	D	A	B	C	A	E	E	A	B

TEST 7

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	D	D	B	B	C	E	E	E	A	A	B	C	E	C	A

TEST 8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
D	C	B	C	B	E	A	A	D	B	C	E	E	A	A

TEST 9

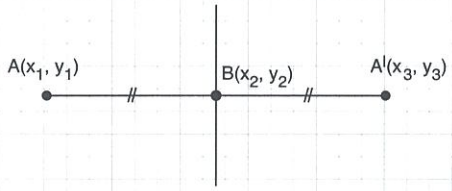
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	B	B	D	B	B	B	D	B	D	C	B	B	C	E	A

SİMETRİ
SYMMETRY

ÖZELLİK|Property 1

Noktanın Noktaya Göre Simetriği

Symmetry of a point as per another point:



$$\frac{x_3 + x_1}{2} = x_2 \qquad \frac{y_3 + y_1}{2} = y_2$$

1. A(3, 2) noktasının B(–1, 4) noktasına göre simetriği?

Symmetry of a point A(3, 2) as per another point B(–1, 4)?

(– 5, 6)

2. A(1, –2) noktasının B(a, b) noktasına göre simetriği olan nokta C(– 5, – 6) ise B(a, b) noktasının koordinatları nedir?

If the Symmetry of a point A(1, –2) as per another point B(a, b) is a point C(–5, –6), then what are the coordinates of point B(a, b)?

(– 2, – 4)

3. A(a, b) noktasının B(– 3, 2) noktasına göre simetriği C(– 6, 3) noktası ise A(a, b) noktasının koordinatları nedir?

If the Symmetry of a point A(a, b) as per another point B(–3, 2) is a point C(–6, 3), then what are the coordinates of point A(a, b)?

(0, 1)

PUZA YAYINLARI

PUZA YAYINLARI

PUZA YAYINLARI

ÖZELLİK|Property 2

Noktanın – *Of a point*

A(x, y)	x eksenine – *x-axis*	A´(x, – y)
A(x, y)	y eksenine – *y-axis*	A´(– x, y)
A(x, y)	orjine – *origine*	A´(– x, – y)
A(x, y)	y = x	A´(y, x)
A(x, y)	y = –x	A´(– y, – x)

göre simetrikleri

the symmetry as per

1. A(–2, 3) noktasının x eksenine göre simetriği B ve B noktasının y = x doğrusuna göre simetriği C noktası olduğuna göre,

Since the symmetry of a point A (–2, 3) as per the axis x is B, and the symmetry of a point B as per the line of y = x is point C

⇒ C(a, b) = ?

(– 3, – 2)

2. A(a, b) noktasının y = – x doğrusuna göre simetriği B ve B noktasının orijine göre simetriği C(– 4, 2) noktası olduğuna göre,

Since the symmetry of a point A (a, b) as per the line y = –x is B, and the symmetry of a point B as per the origin is point C(–4,2)

⇒ A(a, b) = ?

(2, – 4)

3. A(2, 1) noktasının x eksenine göre simetriği B ve y eksenine göre simetriği C noktası olduğuna göre,

Since the symmetry of a point A (2, 1) as per the axis x is B, and as per the axis y is point C

⇒ A(ABC) = ?

4

ÖZELLİK|Property 3

- Noktanın x = a ve y = b doğrularına göre simetriği

Symmetry of a point as per the x = a and y = b lines

$A(x, y) \xrightarrow{x = a} A'(2a - x, y)$

$A(x, y) \xrightarrow{y = b} A'(x, 2b - y)$

1. A(4, 6) noktasının x = 2 doğrusuna göre simetriği olan noktanın koordinatları nedir?

What are the coordinates of the point which is the symmetry of point A(4, 6) as per the x = 2 line?

(0, 6)

2. A(–2, 4) noktasının y + 2 = 0 doğrusuna göre simetriği olan noktanın koordinatları nedir?

What are the coordinates of the point which is the symmetry of point A(–2, 4) as per the y + 2 = 0 line?

(– 2, – 8)

3. A(– 3, 5) noktasının y = 2 noktasına göre simetriği B ve B noktasının orijine göre simetriği C noktası olduğuna göre

Since the symmetry of a point A (–3, 5) as per the point y = 2 is B, and the symmetry of a point B as per the origin is point C

⇒ C(a, b) = ?

(3, 1)

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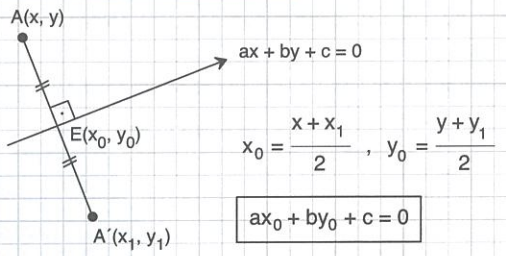
ÖZELLİK|Property 4



$x_0 = \frac{x + x_1}{2}$, $y_0 = \frac{y + y_1}{2}$

$ax_0 + by_0 + c = 0$

$\left(\frac{y_1 - y}{x_1 - x}\right) \cdot \left(-\frac{a}{b}\right) = -1$

1. A(2, –2) noktasının 3x + 4y – 8 = 0 doğrusuna göre simetriği B noktası ise,

If the symmetry of a point A (2, –2) as per the 3x + 4y – 8 = 0 line is a point B

⇒ |AB| = ?

4

2. A(–2, 0) noktasının x + 2y – 8 = 0 doğrusuna göre simetriği olan noktanın koordinatları nedir?

What are the coordinates of the point which is the symmetry of point A(–2, 0) as per the x + 2y – 8 = 0 line?

(2, 8)

3. A(1, 4) noktasının d: ax + by + c = 0 doğrusuna göre simetriği olan nokta B(4, 8) noktası ise A noktasının d doğrusuna olan en kısa uzaklığını bulunuz?

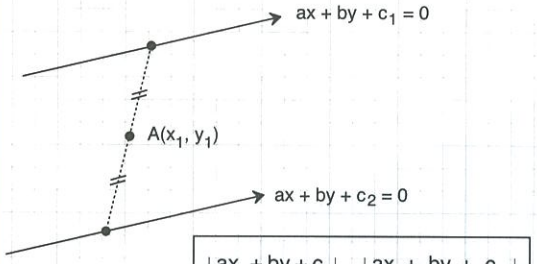
If the symmetry of a point A(1, 4) as per the d: ax + by + c = 0 line is a point B (4, 8), then find the shortest distance of point A to d line?

$\frac{5}{2}$

ÖZELLİK|Property 5

d: ax + by + c = 0 doğrusunun $A(x_1, y_1)$ noktasına göre simetriği

Symmetry of a d: $ax + by + c_1 = 0$ line as per the point $A(x_1, y_1)$



$$\frac{|ax_1 + by_1 + c_1|}{\sqrt{a^2 + b^2}} = \frac{|ax_1 + by_1 + c_2|}{\sqrt{a^2 + b^2}}$$

1. 3x – 2y + 6 = 0 doğrusunun A(2, 4) noktasına göre simetriği olan doğru nedir?

What is the line which is the symmetry of a 3x – 2y + 6 = 0 line as per the point A(2, 4)?

3x – 2y – 2 = 0

2. x + 3y – 6 = 0 doğrusunun A(1, 0) noktasına göre simetriği olan doğru nedir?

What is the line which is the symmetry of a x + 3y – 6 = 0 line as per the point A(1, 0)?

x + 3y + 4 = 0

3. y – x + 4 = 0 doğrusunun A(0, 0) noktasına göre simetriği olan doğru nedir?

What is the line which is the symmetry of a y – x + 4 = 0 line as per the point A(0, 0)?

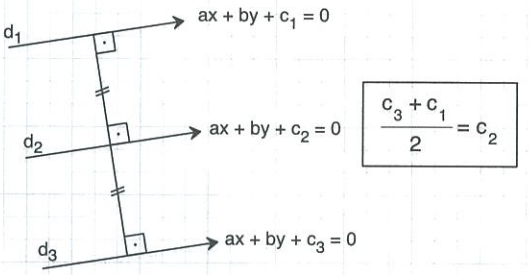
y – x – 4 = 0

ÖZELLİK|Property 6

- d_1: ax + by + c_1 = 0 doğrusunun
  d_2: ax + by + c_2 = 0 doğrusuna göre simetriği
  d_3: ax + by + c_3 = 0 doğrusudur.

  Smmetry of a d_1: $ax + by + c_1 = 0$ line as per the d_2: $ax + by + c_2 = 0$ line is the d_3: $ax + by + c_3 = 0$ line

  ($d_1 // d_1$)



$$\frac{c_3 + c_1}{2} = c_2$$

1. d_1: 3x – 4y + 6 = 0

d_2: 3x – 4y + 10 = 0

d_1 doğrusunun d_2 doğrusuna göre simetriği olan doğru nedir?

What is the line which is the symmetry of the d_1 line as per the d_2 line?

3x – 4y + 14 = 0

2. d_1: 2x – 4y + 5 = 0

d_2: 2x – 4y + 7 = 0

d_1 doğrusunun d_2 doğrusuna göre simetriği olan doğru nedir?

What is the line which is the symmetry of the d_1 line as per the d_2 line?

2x – 4y + 9 = 0

3. d_1: x – 3y + 5 = 0

d_2: 6y – 2x – 8 = 0

d_1 doğrusunun d_2 doğrusuna göre simetriği olan doğru nedir?

What is the line which is the symmetry of the d_1 line as per the d_2 line?

x – 3y + 3 = 0

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PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 7

Doğrunun – *Of a line*

$ax + by + c = 0$	x eksenine – *x-axis* →	$ax - by + c = 0$
$ax + by + c = 0$	y eksenine – *y-axis* →	$-ax + by + c = 0$
$ax + by + c = 0$	orjine – *origine* →	$-ax - by + c = 0$
$ax + by + c = 0$	$y = x$ →	$bx + ay + c = 0$
$ax + by + c = 0$	$y = -x$ →	$-bx - ay + c = 0$

göre simetrikleri
the symmetry as per

1. $2x - 3y + 5 = 0$ doğrusunun $y = x$ doğrusuna göre simetriği olan doğru nedir?

What is he line that is symmetry of a $2x - 3y + 5 = 0$ line as per the $y = x$ line?

$-3x + 2y + 5 = 0$

2. $d_1: x - 2y + 4 = 0$ doğrusunun orijine göre simetriği olan doğru d_2, d_2 doğrusunun $y = -x$ doğrusuna göre simetriği olan doğru d_3 doğrusudur.

The line that is the symmetry of a $d_1: x - 2y + 4 = 0$ line as per the origin is d_2, the symmetry of a line d_2 as per the $y = -x$ line is d_3 line.

$\Rightarrow d_3 = ?$

$-2x + y + 4 = 0$

3. $d_1: 2x + 4y - 6 = 0$ doğrusunun orijine göre simetriği d_2, d_2 doğrusuna paralel olan ve (2, 0) noktasından geçen doğru denklemi nedir?

What is the equation of a line that is parallel to d_2 line that is the symmetry of a $d_1: 2x + 4y - 6 = 0$ line as per the origin and intersects the point (2, 0)?

$x + 2y - 2 = 0$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 8

d_1 doğrusunun d_2 doğrusuna göre simetriği
$d_1: a_1x + b_1y + c_1 = 0$
$d_2: a_2x + b_2y + c_2 = 0$

symmetry of a $d_1: a_1x + b_1y + c_1 = 0$ line
as per the $d_2: a_2x + b_2y + c_2 = 0$ line

$$a_1x + b_1y + c_1 + k(a_2x + b_2y + c_2) = 0$$

$$k = -2 \cdot \frac{a_1a_2 + b_1b_2}{a_2^2 + b_2^2}$$

1. $d_1: 2x - y + 5 = 0$ doğrusunun
$d_2: 3x + y + 4 = 0$ doğrusuna göre simetriği nedir?

What is the symmetry of a $d_1: 2x - y + 5 = 0$ line as per the $d_2: 3x + y + 4 = 0$ line?

$x + 2y - 1 = 0$

2. $d_1: x - y + 4 = 0$ doğrusunun
$d_2: 2x + y - 2 = 0$ doğrusuna göre simetriği nedir?

What is the symmetry of a $d_1: x - y + 4 = 0$ line as per the $d_2: 2x + y - 2 = 0$ line?

$x - 7y + 24 = 0$

3. $d_1: x + 3y - 1 = 0$ doğrusunun
$d_2: x + y - 2 = 0$ doğrusuna göre simetriği nedir?

What is the symmetry of a $d_1: x + 3y - 1 = 0$ line as per the $d_2: x + y - 2 = 0$ line?

$3x + y - 7 = 0$

1. A(2, 3) noktasının B(1, – 3) noktasına göre simetriği olan nokta C(x, y)'dir.

Symmetry of a point A(2, 3) as per another point B(1, –3) is point C (x, y).

⇒ C(x, y) = ?

A) (0, – 6) B) $\left(\frac{3}{2}, 0\right)$ C) (0, – 9) D) (3, 0) E) (3, 9)

2. A(– 2, 4) noktasının B(a, b) noktasına göre simetriği olan nokta C(0, 0)'dır.

Symmetry of a point A(–2, 4) as per another point B(a, b) is point C (0, 0).

⇒ B(a, b) = ?

A) (– 1, 2) B) (– 4, 8) C) (2, – 4) D) (2, 6) E) (– 1, 0)

3. A(–2, 3) noktasının x eksenine göre simetriği B, B noktasının y = x doğrusuna göre simetriği C(x, y) noktasıdır.

The symmetry of a point A (–2, 3) as per the axis x is B, and the symmetry of a point B as per the line of y = x is point C(x, y).

⇒ C(x, y) = ?

A) (3, 2) B) (– 3, 2) C) (– 2, – 3) D) (– 3, – 2) E) (2, – 3)

4. A(a, b) noktasının orijine göre simetriği B, B noktasının y = – x doğrusuna göre simetriği C(– 4, 7) noktasıdır.

The symmetry of a point A (a, b) as per the origin is B, and the symmetry of a point B as per the line of y = –x is point C(–4, 7).

⇒ A(a, b) = ?

A) (– 7, – 4) B) (7, – 4) C) (7, 4) D) (4, – 7) E) (5, 7)

5. A(– 4, 5) noktasının y eksenine göre simetriği olan nokta ax + y – 4 = 0 doğrusu üzerinde ise,

If the Symmetry of a point A(–4, 5) as per the axis y is the point on the ax + y – 4 line,

⇒ a = ?

A) $-\frac{1}{4}$ B) $-\frac{1}{2}$ C) $\frac{1}{2}$ D) 1 E) $\frac{1}{4}$

6. A(– 3, 4) noktası y = x doğrusuna göre simetriği B, x eksenine göre simetriği C noktası ise,

If the symmetry of a point A (–3, 4) as per the y = x line is B, and as per the axis x is point C,

⇒ A(ABC) = ?

A) 16 B) 28 C) 32 D) 40 E) 48

7. A(– 5, 6) noktasının B(– 3, 3) noktasına göre simetriği C, C noktasının orijine göre simetriği D(x, y) noktası ise,

If the symmetry of a point A(–5, 6) as per the point B(–3, 3) is C, and the symmetry of a point C as per the origin is point D(x, y)

⇒ D(x, y) = ?

A) (0, –1) B) (1, 0) C) (–1, 2) D) (1, –2) E) (2, 1)

8. A(a, b) noktasının x eksenine göre simetriği B, B noktasının orijine göre simetriği C(3a – 4, 2b – 2) noktası ise,

If the symmetry of a point A(a, b) as per the axis x is B, and the symmetry of a point B as per the origin is point C(3a – 4, 2b – 2),

⇒ a + b = ?

A) 2 B) 3 C) 4 D) 6 E) 8

PUZA YAYINLARI

9. A(4, 3) noktasının x = 6 doğrusuna göre simetriği B(x, y) noktası ise,

If the symmetry of point A(4, 3) as per the line x = 6 is point B(x, y),

⇒ B(x, y) = ?

A) (6, 3) B) (4, 9) C) (8, 3) D) (10, 3) E) (14, 3)

10. A(–2, 3) noktasının y – 3 = 0 doğrusuna göre simetriği B(x, y) noktası ise,

If the symmetry of point A(–2, 3) as per the line y – 3 = 0 is point B(x, y),

⇒ B(x, y) = ?

A) (– 2, 6) B) (8, 3) C) (– 4, 3) D) (– 2, 3) E) (3, – 2)

11. A(5, 1) noktasının x eksenine göre simetriği B, B noktasının x + 3 = 0 doğrusuna göre simetriği C(x, y) noktası ise,

If the symmetry of a point A (5, 1) as per the axis x is B, and the symmetry of a point B as per the x + 3 = 0 line is point C (x, y)

⇒ x + y = ?

A) –14 B) –12 C) –10 D) – 8 E) – 6

12. A(–2, 3) noktasının y = –x doğrusuna göre simetriği B, B noktasının x – 2 = 0 doğrusuna göre simetriği C, C noktasının y eksenine göre simetriği D(a, b) noktası ise,

If the symmetry of a point A(–2, 3) as per the y = –x line is B, and the symmetry of a point B as per the x – 2 = 0 line is C, and the symmetry of point C as per the axis y is the point D (a, b),

⇒ a + b = ?

A) – 9 B) – 5 C) 3 D) 7 E) 9

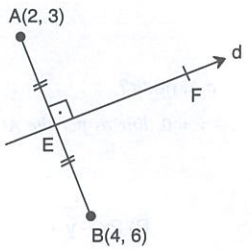
13. A(2, 4) noktasının 3x – 4y = 0 doğrusuna göre simetriği olan nokta B noktası ise,

If the symmetry of point A(2, 4) as per the line 3x – 4y = 0 is the point B,

⇒ |AB| = ?

A) 2 B) 4 C) 6 D) 8 E) 10

14.



[AB] ⊥ d

|AE| = |EB|

⇒ |AE| = ?

A) 13 B) $\frac{13}{2}$ C) $\sqrt{13}$ D) $\frac{\sqrt{13}}{2}$ E) 2

15. A(3, 5) noktasının x – y + 6 = 0 doğrusuna göre simetriği olan nokta B(a, b) ise,

If the symmetry of point A(3, 5) as per the line x – y + 6 = 0 is the point B(a, b),

⇒ B(a, b) = ?

A) (– 3, – 5) B) (9, –1) C) (–2, 3) D) (–9, 1) E) (–1, 9)

16. A(0, 2) noktasının 2x + y – 4 = 0 doğrusuna göre simetriği olan nokta B(a, b) ise,

If the symmetry of point A(0, 2) as per the line 2x + y – 4 = 0 is the point B(a, b),

⇒ B(a, b) = ?

A) (4, – 5) B) $\left(\frac{2}{5}, \frac{4}{5}\right)$ C) $\left(\frac{8}{5}, \frac{14}{5}\right)$ D) $\left(\frac{4}{5}, \frac{14}{5}\right)$ E) (4, 5)

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

1. x – y + 6 = 0 doğrusunun
A(2, 4) noktasına göre simetriği nedir?
What is the symmetry of a x – y + 6 = 0 line as per the A(2, 4) point?

A) x – y – 2 = 0 B) x – y – 6 = 0
C) 2x – y – 2 = 0 D) x – 2y – 2 = 0
E) x – y – 4 = 0

2. 2x – y = 0 doğrusunun
A(–1, 3) noktasına göre simetriği nedir?
What is the symmetry of a 2x – y = 0 line as per the A(–1, 3) point?

A) x – y + 2 = 0 B) 2x – y + 4 = 0
C) x + y + 2 = 0 D) 2x – y + 10 = 0
E) 2x – y – 2 = 0

3. x – 2y + 6 = 0 doğrusunun
x – 2y + 10 = 0 doğrusuna göre simetriği nedir?
What is the symmetry of a x – 2y + 6 = 0 line as per the x – 2y + 10 = 0 line?

A) x – 2y + 14 = 0 B) x – 2y – 14 = 0
C) x – 2y + 28 = 0 D) x – 2y – 28 = 0
E) 2x – y – 28 = 0

4. 3x – 2y + 5 = 0 doğrusunun
– 6x + 4y – 4 = 0 doğrusuna göre simetriği nedir?
What is the symmetry of a 3x – 2y + 5 = 0 line as per the – 6x + 4y – 4 = 0 line?

A) – 6x + 4y – 1 = 0 B) 3x – 2y – 1 = 0
C) – 6x + 4y – 4 = 0 D) 3x – 2y – 2 = 0
E) 3x – 2y + 2 = 0

5. x – 2y + 5 = 0 doğrusunun
y = x doğrusuna göre simetriği nedir?
What is the symmetry of a x – 2y + 5 = 0 line as per the y = x line?

A) x – 2y + 10 = 0 B) 2x – 4y – 5 = 0
C) 2x – 4y + 5 = 0 D) y – 2x + 5 = 0
E) x – 2y – 5 = 0

6. 3x + 2y – 4 = 0 doğrusunun
y + x = 0 doğrusuna göre simetriği nedir?
What is the symmetry of a 3x + 2y – 4 = 0 line as per the y + x = 0 line?

A) 6x – 4y + 6 = 0 B) 3x + 2y + 3 = 0
C) 3x + 2y + 1 = 0 D) 3x + 2y + 6 = 0
E) 2x + 3y + 4 = 0

7. 2x + ay – 4 = 0 doğrusunun
y + x = 0 doğrusuna göre simetriği A(2, 1) noktasından geçtiğine göre,
Since the symmetry of a 2x + ay – 4 = 0 line as per the y + x = 0 line passes through the point A(2, 1)

⇒ a = ?

A) – 6 B) – 3 C) 0 D) 3 E) 6

8. 2x – y + 4 = 0 doğrusunun
x = 0 doğrusuna göre simetriği nedir?
What is the symmetry of a 2x – y + 4 = 0 line as per the x = 0 line?

A) 2x + y – 8 = 0 B) 2x + y – 4 = 0
C) 2x – y + 16 = 0 D) x + y – 8 = 0
E) x + 2y – 8 = 0

PUZA YAYINLARI

9. A(3, 5) noktasının y = x doğrusuna göre simetriği B, B noktasının y = –x doğrusuna göre simetriği C(a, b) ise,

If the symmetry of a point A(3, 5) as per the y = x line is B, and the symmetry of a point B as per the line of y = –x is point C(a, b),

⇒ C(a, b) = ?

A) (0, 5) B) (3, 5) C) (3, – 5)
D) (– 3, 5) E) (– 3, – 5)

10. A(2, 4) noktasının B(a, 3) noktasına göre simetriği 3x + y + 4 = 0 doğrusu üzerinde ise,

If the symmetry of a point A(2, 4) as per another point B(a, 3) is on the 3x + y + 4 = 0 line,

⇒ a = ?

A) $-\frac{8}{7}$ B) –1 C) 0 D) $\frac{8}{7}$ E) 8

11. Analitik düzlemde verilen y = mx + n doğrusunun A(1, 4) noktasına göre simetriği 2x – y + 1 = 0 doğrusu olduğuna göre,

Since the symmetry of a y = mx + n line given at the analytical plane, as per the point A(1, 4) is 2x – y + 1 = 0,

⇒ m + n = ?

A) 3 B) 4 C) 5 D) 6 E) 7

12. Analitik düzlemde verilen x + y – 4 = 0 doğrusunun A(a, b) noktasına göre simetriği x + y + 6 = 0 doğrusu ise,

Since the symmetry of a x + y – 4 = 0 line given at the analytical plane as per the point A(a, b) is x + y + 6 = 0 line,

⇒ a + b = ?

A) –1 B) 0 C) 1 D) 3 E) 6

13. A(a + 2, a – 2) noktasının y = x doğrusuna göre simetriği x ekseni üzerinde ise, A noktasının x + 2 = 0 doğrusuna göre simetriği nedir?

If the symmetry of a point A(a + 2, a – 2) as per the y = x line is on the x axis, then what is the symmetry of a point A as per the x + 2 = 0 line?

A) (1, 0) B) (1, 2) C) (4, 4)
D) (– 4, – 4) E) (– 4, – 2)

14. A(–1, 2) noktasının x = 2 doğrusuna göre simetriği B, y = 3 doğrusuna göre simetriği C noktası ise B ve C noktalarından geçen doğru denklemi nedir?

If the symmetry of a point A (–1, 2) as per the x = 2 line is B, the symmetry as per the y = 3 line is C, then what is the equation of the line that passes through the point B and C?

A) y = 2 B) y = 4 C) x = 5
D) 3x – y – 6 = 0 E) 3y + x – 11 = 0

15. x – 2y – 6 = 0, 2x + y – 5 = 0 doğrularının açıortay denklemlerinden birinin orijine göre simetriği nedir?

What is the symmetry of one of the equations of angles bisectors of the x – 2y – 6 = 0, 2x + y – 5 = 0 lines as per the origin?

A) x + 3y – 1 = 0 B) x + 3y – 2 = 0
C) x + 3y + 1 = 0 D) 2x + 3y – 2 = 0
E) 2x – 3y – 1 = 0

16. 2x + 3y – 6 = 0 doğrusunun 3x – 2y – 6 = 0 doğrusuna göre simetriği nedir?

What is the symmetry of a 2x + 3y – 6 = 0 line as per the 3x – 2y – 6 = 0 line?

A) x – 5y = 0 B) 2x + 3y – 6 = 0
C) x – 5y + 6 = 0 D) x – 5y + 12 = 0
E) x + 5y – 12 = 0

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SİMETRİ SYMMETRY

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	A	D	B	A	B	B	B	C	D	B	B	B	D	E	C

TEST 2

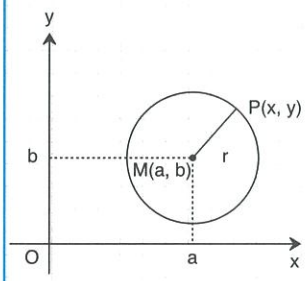
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	D	A	B	D	E	B	B	E	C	C	A	D	E	A	B

ÇEMBER ANALİTİĞİ

ANALYTIC GEOMETRY

CIRCLE

ÖZELLİK|Property 1



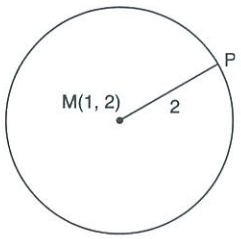
$r = \sqrt{(x-a)^2 + (y-b)^2}$

$r^2 = (x-a)^2 + (y-b)^2$

M(a, b) merkez
M(a, b) center

r yarıçaplı çember
circle with radius r

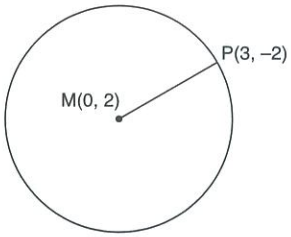
1.



⇒ M merkezli çember denklemi nedir?
What is the circle equation with a center M?

$(x-1)^2 + (y-2)^2 = 4$

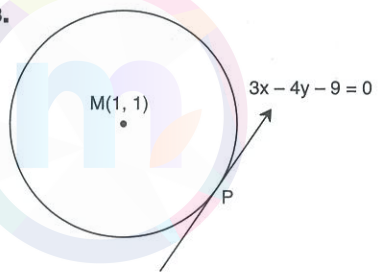
2.



⇒ M merkezli çember denklemi nedir?
What is the circle equation with a center M?

$x^2 + (y-2)^2 = 25$

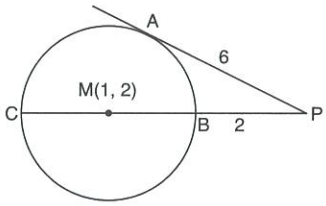
3.



⇒ M merkezli çember denklemi nedir?
What is the circle equation with a center M?

$(x-1)^2 + (y-1)^2 = 4$

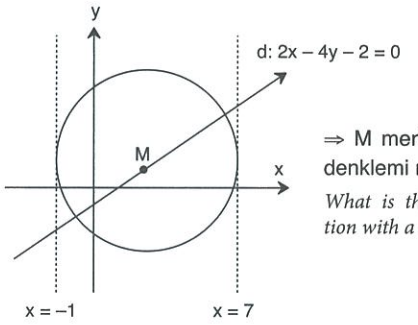
4.



⇒ M merkezli çember denklemi nedir?
What is the circle equation with a center M?

$(x-1)^2 + (y-2)^2 = 64$

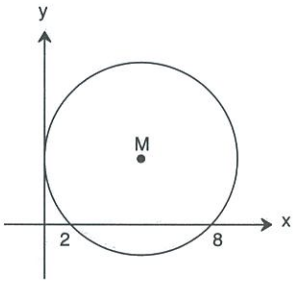
5.



⇒ M merkezli çember denklemi nedir?
What is the circle equation with a center M?

$(x-3)^2 + (y-1)^2 = 16$

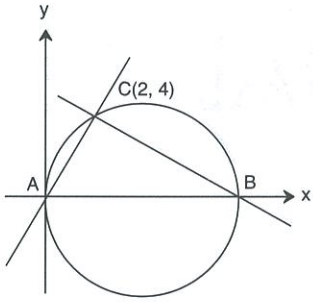
6.



⇒ M merkezli çember denklemi nedir?
What is the circle equation with a center M?

$(x-5)^2 + (y-4)^2 = 25$

7.



⇒ [AB] çaplı çember denklemi nedir?
What is the circle equation with a diameter [AB]?

$(x-5)^2 + y^2 = 25$

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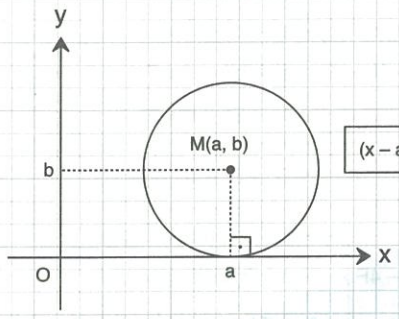
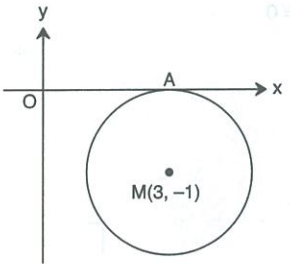
ÖZELLİK|Property 2



$(x-a)^2+(y-b)^2=b^2$

1.

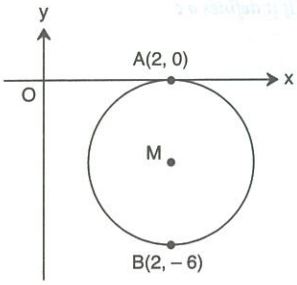


⇒ M merkezli çember denklemi nedir?

What is the circle equation with a center M?

$(x-3)^2+(y+1)^2=1$

2.

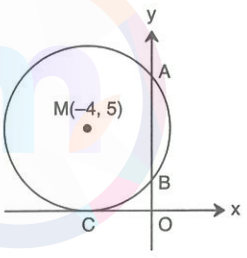


⇒ M merkezli çember denklemi nedir?

What is the circle equation with a center M?

$(x-2)^2+(y+3)^2=9$

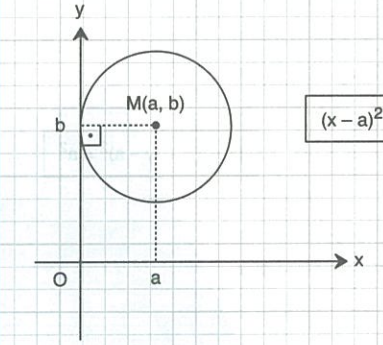
3.



⇒ |AB| = ?

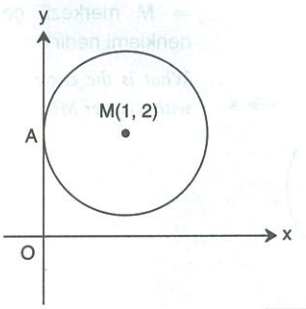
PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

ÖZELLİK|Property 3



$(x-a)^2+(y-b)^2=a^2$

1.

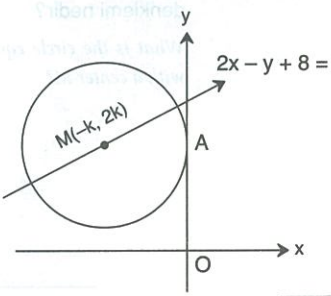


⇒ M merkezli çember denklemi nedir?

What is the circle equation with a center M?

$(x-1)^2+(y-2)^2=1$

2.

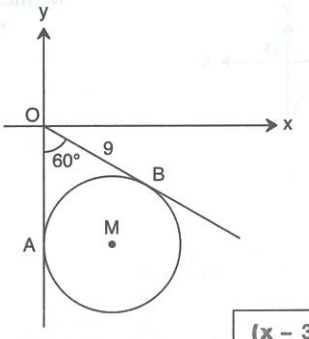


⇒ M merkezli çember denklemi nedir?

What is the circle equation with a center M?

$(x+2)^2+(y-4)^2=4$

3.



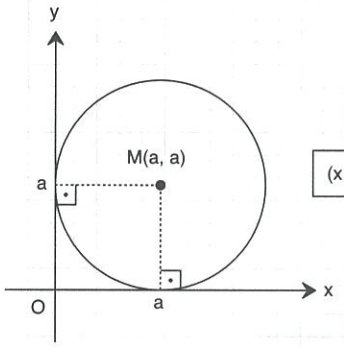
|OB| = 9 br

⇒ M merkezli çember denklemi nedir?

What is the circle equation with a center M?

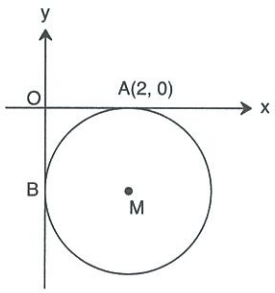
$(x-3\sqrt{3})^2+(y+9)^2=27$

ÖZELLİK|Property 4



$(x-a)^2+(y-a)^2=a^2$

1.

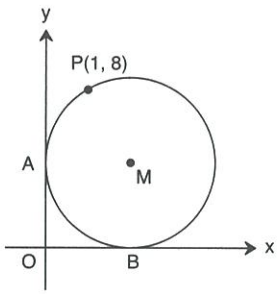


⇒ M merkezli çember denklemi nedir?

What is the circle equation with a center M?

$(x-2)^2+(y+2)^2=4$

2.

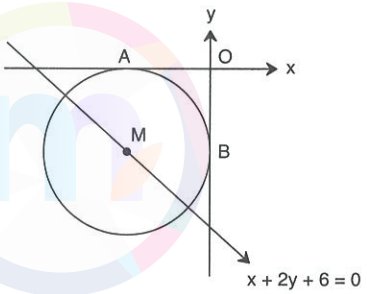


⇒ M merkezli çember denklemi nedir?

What is the circle equation with a center M?

$(x-5)^2+(y-5)^2=25$

3.



⇒ M merkezli çember denklemi nedir?

What is the circle equation with a center M?

$(x+2)^2+(y+2)^2=4$

ÖZELLİK|Property 5

$(x-a)^2+(y-b)^2=r^2$

$x^2+y^2-2ax-2by+a^2+b^2-r^2=0$

$-2a=D \quad -2b=E \quad a^2+b^2-r^2=F$

$x^2+y^2+Dx+Ey+F=0$

$M\left(-\frac{D}{2},-\frac{E}{2}\right)$ $\quad r=\frac{1}{2}\sqrt{D^2+E^2-4F}$

$\Delta = D^2+E^2-4F$

- → $\Delta > 0$ çember *(circle)*
- → $\Delta = 0$ nokta *(point)*
- → $\Delta < 0$ çember belirtmez *(it does not define a circle)*

1. $x^2+y^2-6x+4y-3=0$

⇒ M = ?

⇒ r = ?

(3, – 2), 4

2. $(m-2)x^2+4y^2+8x+(m+2)y-4=0$

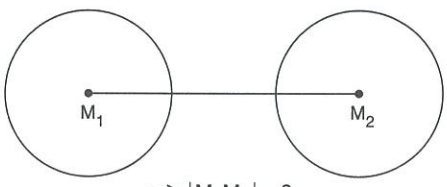
çember belirtiyorsa *(If it defines a circle)*

⇒ r = ?

$\sqrt{3}$

3. $x^2+y^2-2x-6y-12=0 \rightarrow M_1$ (merkezi) *(its center is)*

$x^2+y^2+6x-4y-8=0 \rightarrow M_2$ (merkezi) *(its center is)*



⇒ $|M_1M_2|$ = ?

$\sqrt{17}$

PUZA YAYINLARI
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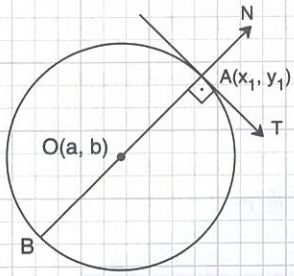
ÖZELLİK|Property 6

Çember üzerinden çizilen teğet ve normal denklemi

The equation of a tangent and normal line that is drawn over the circle



$$m_N = \frac{y_1 - b}{x_1 - a}$$

$$m_T \cdot m_N = -1$$

Teğet Denklemi

Equation of tangential

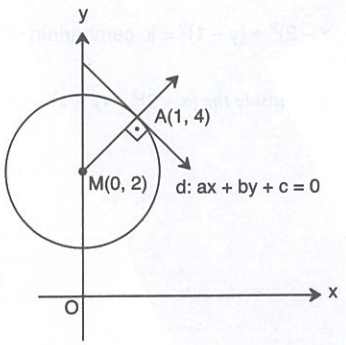
$$y - y_1 = m_T(x - x_1)$$

Normal Denklemi

Equation of normal line

$$y - y_1 = m_N(x - x_1)$$

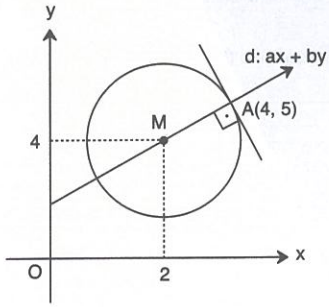
1.



⇒ d = ?

2y + x − 9 = 0

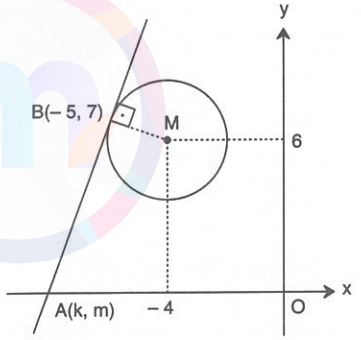
2.



⇒ d = ?

2y − x − 6 = 0

3.



⇒ k + m = ?

−12

ÖZELLİK|Property 7

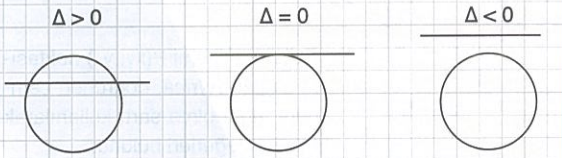
Doğru ile çemberin birbirine göre durumları

Cases of a line and circle as per each other

$(x - a)^2 + (y - b)^2 = r^2$ ⟵ $y = mx + n$

$(x - a)^2 + (mx + n - b)^2 = r^2$

$(x - a)^2 + (mx + n - b)^2 - r^2 = 0$

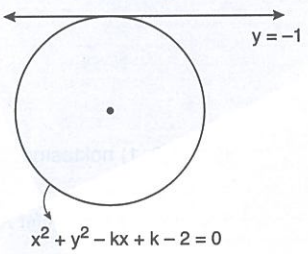


1. $(x - 1)^2 + (y - 3)^2 = 2$ çemberi ile $y = x + 2$ doğrusunun varsa kesim noktalarını bulunuz.

Find the intersecting points of the $(x-1)^2 + (y-3)^2 = 2$ circle and the $y = x + 2$ line if there is any.

(0,2), (2,4)

2.

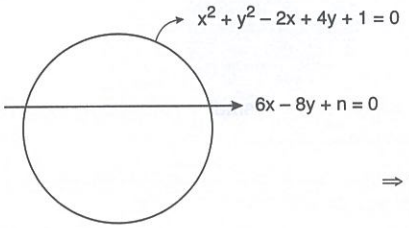


$x^2 + y^2 - kx + k - 2 = 0$

⇒ k = ?

2

3.



⇒ ? < n < ?

− 42 < n < −2

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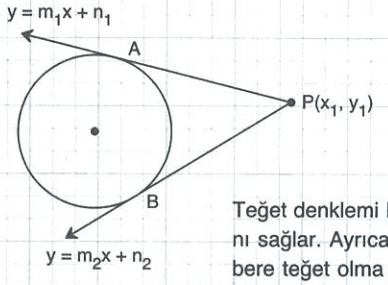
ÖZELLİK|Property 8

Çember dışındaki bir noktadan çizilen teğet denklemleri

The equations of tangent which are drawn from a point outside the circle



Teğet denklemi $P(x_1, y_1)$ noktasını sağlar. Ayrıca, doğrunun çembere teğet olma şartı kullanılarak m ve n değerleri bulunur.

An equation of tangent proves the point $P(x_1, y_1)$. Furthermore, by utilizing the condition being tangential to a circle, m and n values are found.

1. $(x-6)^2 + y^2 = 36$ çemberinin dışındaki (16, 0) noktasında çizilen teğet denklemleri nedir?

The equations of tangents which are drawn from a point (16, 0) outside the circle $(x-6)^2 + y^2 = 36$

5y + 3x + 48 = 0
5y – 3x + 48 = 0

2. $x^2 + y^2 = 5$ çemberinin dışındaki A(3, 1) noktasından çizilen teğet denklemleri nedir?

The equations of tangents which are drawn from a point A(3, 1) outside the circle $x^2 + y^2 = 5$

y = 2x – 5
$y = -\frac{1}{2}x + \frac{5}{2}$

3. $x^2 + y^2 = 10$ çemberine dışındaki A(2, 4) noktasından çizilen teget denklemleri nedir?

The equations of tangents which are drawn from a point A(2, 4) outside the circle $x^2 + y^2 = 10$

3y – x – 10 = 0
y + 3x – 10 = 0

ÖZELLİK|Property 9

$A(x_1\ y_1)$ noktası ile $(x-a)^2 + (y-b)^2 = r^2$ çemberi için

$(x_1-a)^2 + (y_1-b)^2 < r^2 \Rightarrow$ nokta çemberin içinde
the point inside the circle

$(x_1-a)^2 + (y_1-b)^2 > r^2 \Rightarrow$ nokta çemberin dışında
the point outside the circle

$(x_1-a)^2 + (y_1-b)^2 = r^2 \Rightarrow$ nokta çemberin üstünde
the point at the circle

1. A(1, – 2) noktası $(x-2)^2 + (y-1)^2 = k$ çemberinin dışında ise k ne olmalıdır?

If the point A (1, –2) is outside the $(x-2)^2 + (y-1)^2 = k$ circle, what must k be?

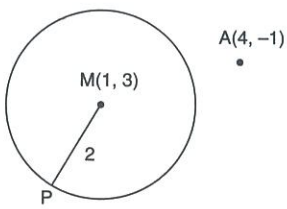
k < 10

2. A(2, 1) noktası $(x-1)^2 + (y+1)^2 = k$ çemberinin içinde ise k ne olmalıdır?

If the point A(2, 1) is inside the $(x-1)^2 + (y+1)^2 = k$ circle, what must k be?

5 < k

3.



A noktasının çemberin en uzak noktasına olan uzaklığı kaç br'dir?

How many unit is the distance of a point A to the farthest point of the circle?

7

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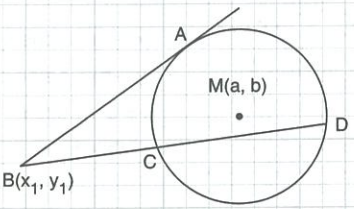
ÖZELLİK|Property 10

Bir noktanın çembere göre kuvveti

Power of a point with respect to a circle



$|AB|^2 = |BC| \cdot |BD|$ (kuvvete p dersek) (*Let the power be p*)

☆ $(x-a)^2 + (y-b)^2 = r^2$

$|p| = (x_1 - a)^2 + (y_1 - b)^2 - r^2$

☆ $x^2 + y^2 + Dx + Ey + F = 0$

$|p| = x_1^2 + y_1^2 + Dx_1 + Ey_1 + F$

1. A(1, – 2) noktasının $(x-1)^2 + (y-2)^2 = 3$ çemberine göre kuvvetini bulunuz.

Find the power of the point A(1, –2) as per the circle $(x-1)^2 + (y-2)^2 = 3$.

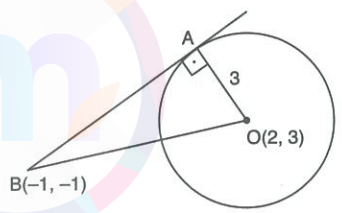
13

2. A(– 2, 1) noktasının $x^2 + y^2 + 2x + y + 1 = 0$ çemberine göre kuvvetini bulunuz.

Find the power of the point A(–2, 1) as per the circle $x^2 + y^2 + 2x + y + 1 = 0$.

3

3.



⇒ |AB| = ?

4

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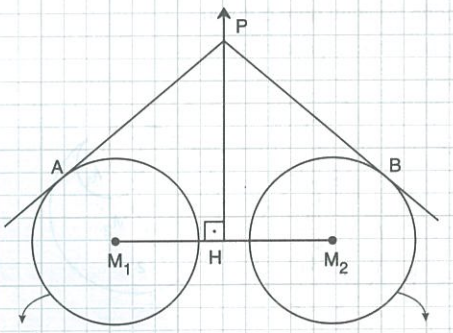
ÖZELLİK|Property 11

Kuvvet Ekseni

Radical axis

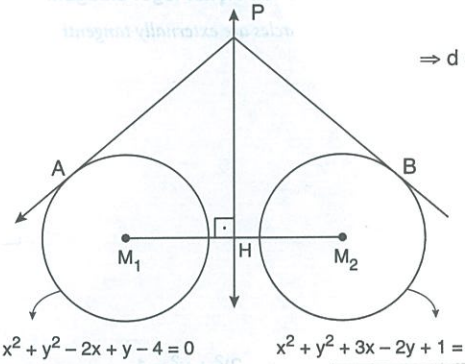


$x^2 + y^2 + D_1x + E_1y + F_1 = 0$ $\quad$ $x^2 + y^2 + D_2x + E_2y + F_2 = 0$

Kuvvet eksenini bulmak için x^2 ve y^2 yok edilir.

In order to find the radical axis, the x^2 *and* y^2 *are eliminated.*

1. d: ax + by + c = 0

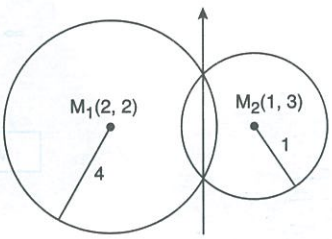


⇒ d = ?

$x^2 + y^2 - 2x + y - 4 = 0$ $\quad$ $x^2 + y^2 + 3x - 2y + 1 = 0$

5x – 3y + 5 = 0

2. d: ax + by + c = 0



⇒ d = ?

2y – 2x – 17 = 0

3. $x^2 + y^2 + 4x + 6y + 4 = 0$ $\quad$ $x^2 + y^2 - 8x - 10y + 30 = 0$ çemberlerinin kuvvet ekseni nedir?

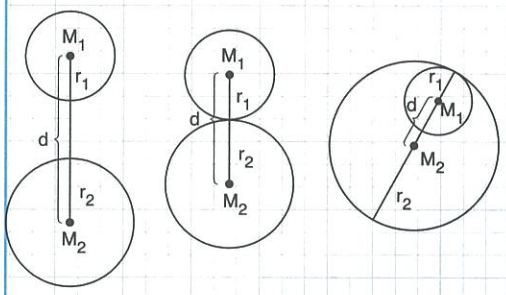
What is the radical axis of the circles $x^2 + y^2 + 4x + 6y + 4 = 0$ $x^2 + y^2 - 8x - 10y + 30 = 0$?

6x + 8y – 13 = 0

ÖZELLİK|Property 12

İki çemberin birbirine göre durumu

Cases of a two circles as per each other



1. $x^2 + y^2 = 16$ $(x + 4)^2 + (y - a)^2 = 1$

$a > 0$ çemberleri dıştan teğet olduğuna göre

if the circles are externally tangential

$\Rightarrow a = ?$

3

2. $x^2 + (y - a)^2 = 16$ $(x - 2)^2 + y^2 = 1$

$a > 0$ çemberleri içten teğet ise

in case the circles are internally tangents

$\Rightarrow a = ?$

$\sqrt{5}$

3. $(x + 3)^2 + (y - 2)^2 = 9$

$(x - 1)^2 + (y + 1)^2 = r^2$

çemberleri dıştan teğet olduğuna göre

if the circles are externally tangential

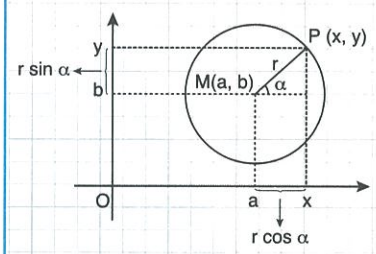
$\Rightarrow r = ?$

2

ÖZELLİK|Property 13

Çemberin Parametrik Denklemi

The parametric equation of a circle



$(x - a) = r\cos\alpha$

$(y - b) = r\sin\alpha$

$x = a + r\cos\alpha$

$y = b + r\sin\alpha$

$(x - a)^2 + (y - b)^2 = r^2(\cos^2\alpha + \sin^2\alpha)$

$(x - a)^2 + (y - b)^2 = r^2$

1. $x = 2\cos\alpha + 1$

$y = 2\sin\alpha - 3$ $\Rightarrow$ çemberinin denklemi nedir?

What is the equation of the circle?

$(x - 1)^2 + (y + 3)^2 = 4$

2. $x = 3 + 4\cos\alpha$

$y = -2 + 4\sin\alpha$ $\Rightarrow$ çemberinin denklemi nedir?

What is the equation of the circle?

$(x - 3)^2 + (y + 2)^2 = 16$

3. $(x - 1)^2 + (y + 2)^2 = 4$ olan çemberin parametrik denklemi nedir?

What is the parametric equation of the circle which is $(x - 1)^2 + (y + 2)^2 = 4$*?*

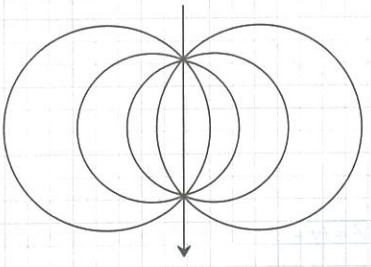
$x = 1 + 2\cos\alpha$

$y = -2 + 2\sin\alpha$

PUZA YAYINLARI

ÖZELLİK|Property 14

Çember Demeti *Circle Bundle*



$x^2 + y^2 + D_1x + E_1y + F_1 + k(x^2 + y^2 + D_2x + E_2y + F) = 0$

1. $(x-4)^2 + (y-4)^2 = 9$ ve $(x-3)^2 + (y-3)^2 = 4$ çemberlerinin kesim noktalarından ve P(2, 1) noktasından geçen çember denklemi nedir?

What is the equation of a circle that passes through the intersecting point of $(x-4)^2 + (y-4)^2 = 9$ and $(x-3)^2 + (y-3)^2 = 4$ circles and a point P (2, 1)?

$$x^2 + y^2 - \frac{16}{3}x - \frac{16y}{3} + 3 = 0$$

2. $x^2 + y^2 - 2x + y - 4 = 0$

$x^2 + y^2 - 2x + 2y - 8 = 0$

çemberlerinin kesim noktalarından geçen doğru denklemi nedir?

What is the equation of a line that passes through the intersecting point of $x^2 + y^2 - 2x + y - 4 = 0$ and $x^2 + y^2 - 2x + 2y - 8 = 0$ circles?

y = 4

3. $x^2 + y^2 - 8x + 4y + 16 = 0$

$x^2 + y^2 + 4x - 8y - 4 = 0$

çemberlerinin kesim noktalarından geçen doğru denklemi nedir?

What is the equation of a line that passes through the intersecting point of $x^2 + y^2 - 8x + 4y + 16 = 0$ and $x^2 + y^2 + 4x - 8y - 4 = 0$ circles?

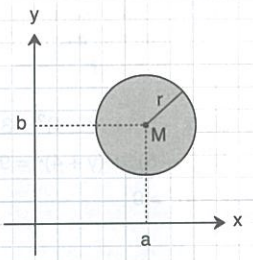
3y - 3x + 5 = 0

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

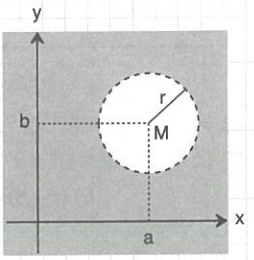
ÖZELLİK|Property 15

Çemberin Düzlemde Ayırdığı Bölge

Sector that a circle separates at the plane



$(x-a)^2 + (y-b)^2 \le r^2$



$(x-a)^2 + (y-b)^2 > r^2$

1. $(x-2)^2 + (y-1)^2 \le 4$

Eşitsizliğinin çözüm kümesinin grafiğini çiziniz.

Draw the graph of a solution set of the $(x-2)^2 + (y-1)^2 \le 4$ inequality.

2. $4 < x^2 + y^2 \le 9$

Eşitsizliğinin çözüm kümesinin grafiğini çiziniz.

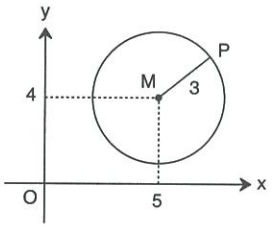
Draw the graph of a solution set of the $4 < x^2 + y^2 \le 9$ inequality.

3. $x^2 + y^2 - 2x + 4y - 4 > 0$

Eşitsizliğinin çözüm kümesinin grafiğini çiziniz.

Draw the graph of a solution set of the $x^2 + y^2 - 2x + 4y - 4 > 0$ inequality.

1.



|MP| = 3 br

Şekildeki M merkezli çemberin denklemi nedir?

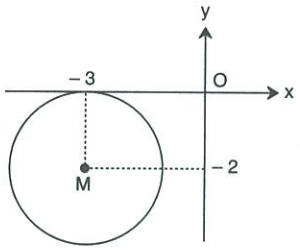
What is the circle equation with a center M as in figure?

A) $(x+4)^2+(y+5)^2=9$ B) $(x-5)^2+(y-4)^2=3$

C) $(x-5)^2+(y+4)^2=9$ D) $(x+5)^2+(y+4)^2=9$

E) $(x-5)^2+(y-4)^2=9$

2.



Şekildeki M merkezli çemberin denklemi nedir?

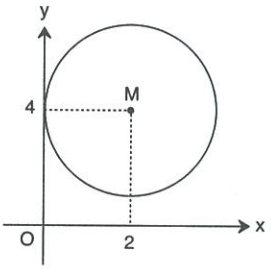
What is the circle equation with a center M as in the figure?

A) $(x-3)^2+(y-2)^2=9$ B) $(x+3)^2+(y+2)^2=4$

C) $(x+3)^2+(y+2)^2=9$ D) $(x-3)^2+(y-2)^2=4$

E) $(x+3)^2+(y+2)^2=2$

3.



Şekildeki M merkezli çemberin denklemi nedir?

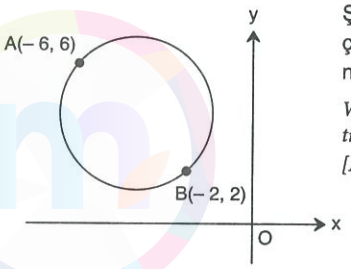
What is the circle equation with a center M as in figure?

A) $(x-2)^2+(y-4)^2=16$ B) $(x+2)^2+(y-4)^2=4$

C) $(x+2)^2+(y+4)^2=16$ D) $(x+2)^2+(y+4)^2=4$

E) $(x-2)^2+(y-4)^2=4$

4.



Şekildeki [AB] çaplı çemberin denklemi nedir?

What is the circle equation with a diameter [AB] as in figure?

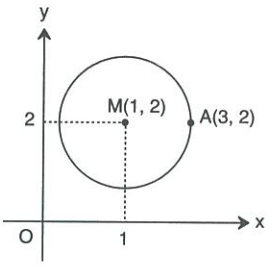
A) $(x-4)^2+(y+4)^2=8$ B) $(x+4)^2+(y-4)^2=8$

C) $(x+4)^2+(y-4)^2=32$ D) $(x-4)^2+(y-4)^2=16$

E) $(x-2)^2(y+2)^2=8$

PUZA YAYINLARI

5.



M merkezli çemberin denklemi nedir?

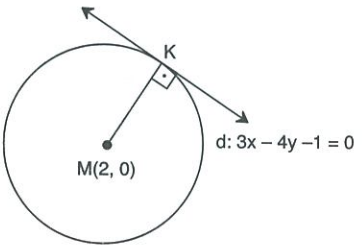
What is the circle equation with a center M?

A) $(x-1)^2+(y-2)^2=2$ B) $(x-1)^2+(y-2)^2=4$

C) $(x+1)^2+(y+2)^2=2$ D) $(x+1)^2+(y+2)^2=4$

E) $(x+1)^2+(y+2)^2=4$

6.

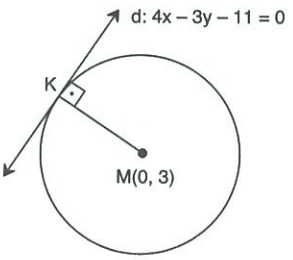


M merkezli çemberin yarıçapı kaç birimdir?

What's the lenght of the radius of the given circle with center M?

A) 1 B) 2 C) 3 D) 4 E) 5

7.



M merkezli çemberin denklemi nedir?

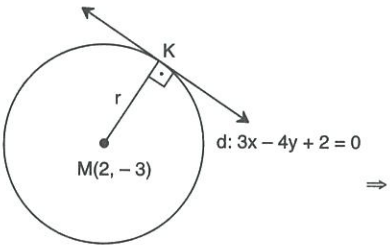
What is the circle equation with a center M?

A) $x^2+(y-3)^2=3$ B) $x^2+(y-3)^2=25$

C) $x^2+(y+3)^2=3$ D) $x^2+(y-3)^2=16$

E) $x^2+(y+3)^2=16$

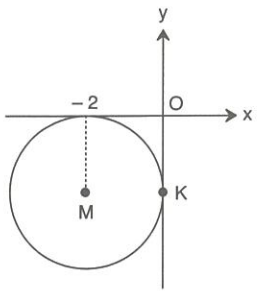
8.



$\Rightarrow r = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

9.



M merkezli çemberin denklemi nedir?

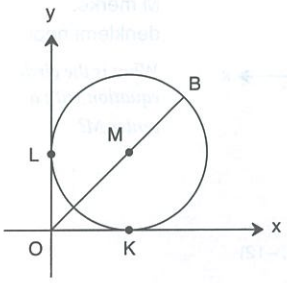
What is the circle equation with a center M?

A) $(x+2)^2+(y+2)^2=2$ B) $(x-2)^2+(y-2)^2=2$

C) $x^2+y^2=4$ D) $(x+2)^2+(y+2)^2=4$

E) $(x-2)^2+(y-2)^2=4$

10.



$|OB| = (6+6\sqrt{2})$ br

M merkezli çemberin denklemi nedir?

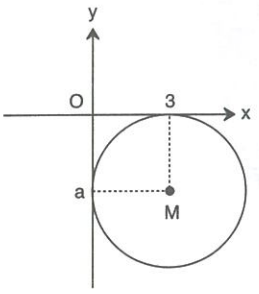
What is the circle equation with a center M

A) $(x-1)^2+(y-1)^2=1$ B) $(x-2)^2+(y-2)^2=4$

C) $(x-3)^2+(y-3)^2=9$ D) $(x-6)^2+(y-6)^2=36$

E) $x^2+y^2=6$

11.



M merkezli çemberin denklemi

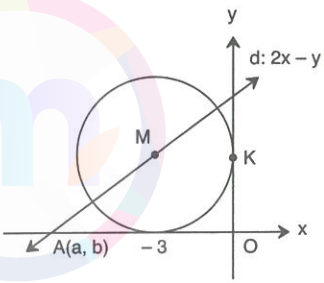
The circle equation with a center M

$(x-3)^2+(y-a)^2=9$

$\Rightarrow a = ?$

A) – 2 B) – 3 C) – 4 D) – 5 E) – 6

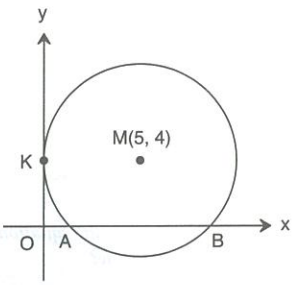
12.



$\Rightarrow a = ?$

A) $\frac{-9}{2}$ B) – 4 C) $\frac{-10}{3}$ D) – 3 E) –1,5

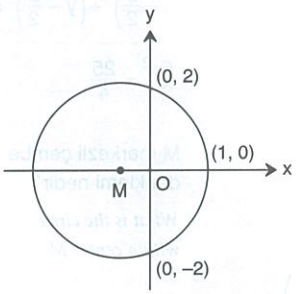
13.



$\Rightarrow |AB| = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

14.

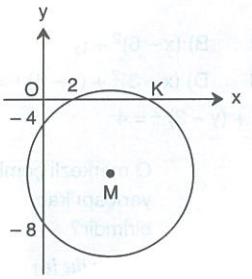


M merkezli çemberin yarıçapı kaç birimdir?

What's the lenght of the radius of the given with center M?

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

15.



M merkezli çemberin denklemi nedir?

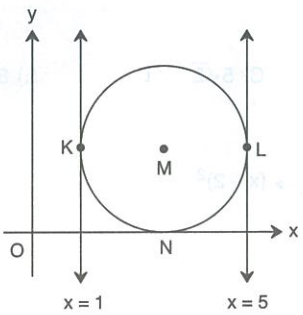
What is the circle equation with a center M?

A) $(x-3)^2+(y+6)^2=16$ B) $(x-9)^2+(y+6)^2=85$

C) $(x-3)^2+(y-6)^2=80$ D) $(x-2)^2+(y+2)^2=16$

E) $(x-9)^2+(y+6)^2=117$

16.



M merkezli çemberin denklemi nedir?

What is the circle equation with a center M?

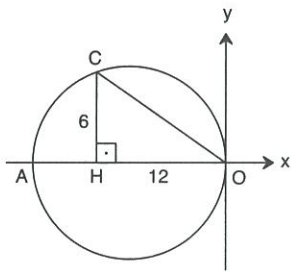
A) $(x-1)^2+(y-5)^2=16$ B) $(x-3)^2+(y-2)^2=4$

C) $(x-3)^2+(y-3)^2=4$ D) $(x-3)^2+(y-2)^2=16$

E) $(x-3)^2+y^2=16$

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

1.



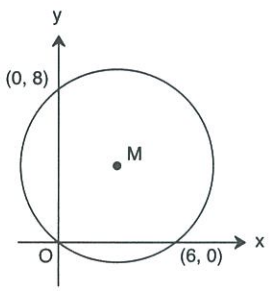
[CH] ⊥ [AO]
[AB] çap
[AB] diameter
|CH| = 6 br
|HO| = 12 br
Çemberin denklemi nedir?
What is the equation of the circle?

A) $(x-12)^2+y^2=36$ B) $(x+12)^2+y^2=36$

C) $\left(x+\frac{15}{2}\right)^2+y^2=\frac{225}{4}$ D) $\left(x-\frac{5}{2}\right)^2+\left(y-\frac{5}{2}\right)^2=\frac{25}{4}$

E) $\left(x+\frac{5}{2}\right)^2+\left(y-\frac{5}{2}\right)^2=\frac{25}{4}$

2.



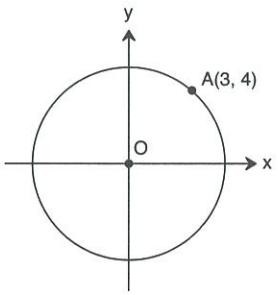
M merkezli çemberin denklemi nedir?
What is the circle equation with a center M?

A) $(x-8)^2+(y-6)^2=10$ B) $(x-6)^2+(y-8)^2=25$

C) $(x+3)^2+(y+4)^2=10$ D) $(x-3)^2+(y-4)^2=25$

E) $(x-2)^2+(y-3)^2=4$

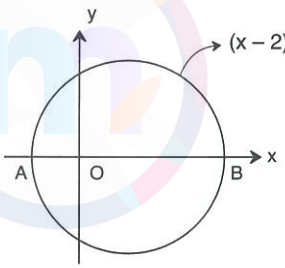
3.



O merkezli çemberin yarıçapı kaç birimdir?
What's the lenght of the radius of the given circle with center O?

A) 4 B) 5 C) $5\sqrt{2}$ D) 8 E) $8\sqrt{2}$

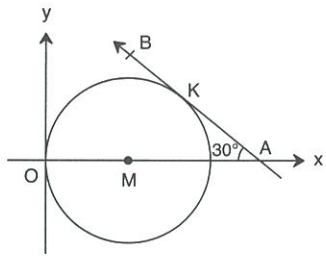
4.



⇒ |AB| = ?

A) 2 B) 3 C) $2\sqrt{3}$ D) 4 E) 8

5.



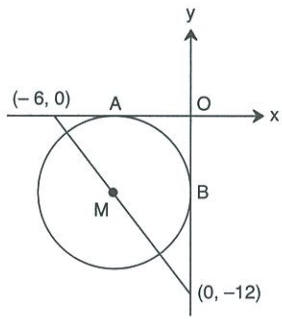
A(9, 0)
$m(\widehat{BAO}) = 30°$
M merkezli çemberin denklemi nedir?
What is the circle equation with a center M?

A) $(x-2)^2+y^2=4$ B) $(x+1)^2+y^2=4$

C) $(x+3)^2+y^2=9$ D) $(x-3)^2+y^2=9$

E) $(x-1)^2+y^2=1$

6.



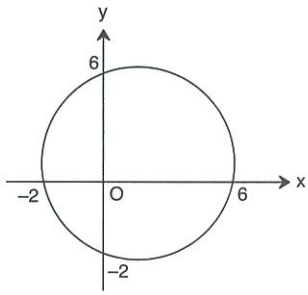
M merkezli çemberin denklemi nedir?
What is the circle equation with a center M?

A) $(x+2)^2+(y+2)^2=3$ B) $(x+2)^2+(y+2)^2=4$

C) $(x-1)^2+(y+1)^2=1$ D) $(x+1)^2+(y+1)^2=1$

E) $(x+4)^2+(y+4)^2=16$

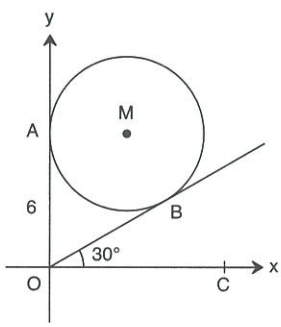
7.



⇒ r = ?

A) 1 B) 2 C) $2\sqrt{5}$ D) 4 E) $4\sqrt{5}$

8.

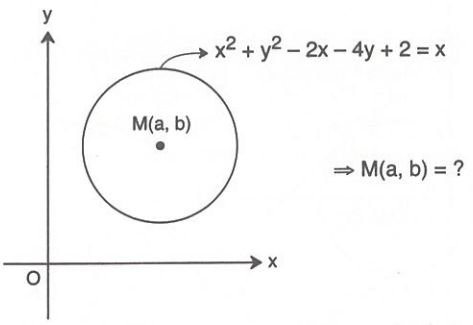


|OA| = 6 br
$m(\widehat{BOC}) = 30°$
M merkezli çemberin yarıçapı kaçtır?
What's the lenght of the radius of the given circle with center M?

A) 1 B) 2 C) $2\sqrt{3}$ D) 4 E) $4\sqrt{3}$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

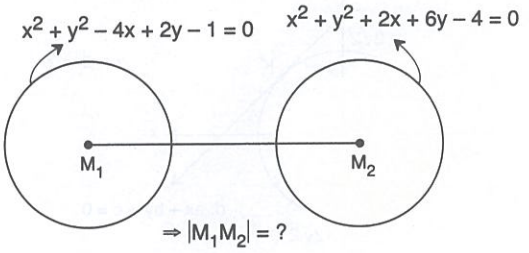
9.



$\Rightarrow M(a, b) = ?$

A) $(-2, -4)$ B) $(2, 4)$ C) $(-1, -2)$ D) $(1, 2)$ E) $(-4, 2)$

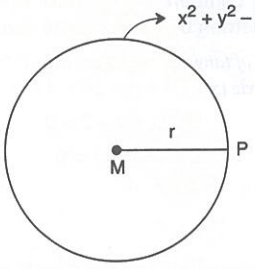
10.



$\Rightarrow |M_1M_2| = ?$

A) $\sqrt{7}$ B) $\sqrt{13}$ C) 5 D) 6 E) $\sqrt{51}$

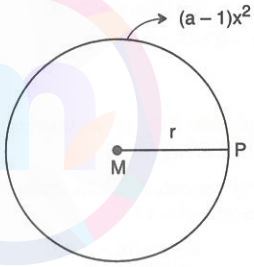
11.



$\Rightarrow r = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

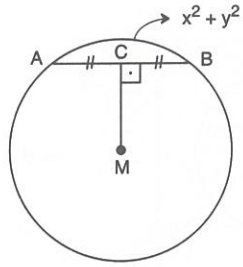
12.



$\Rightarrow r = ?$

A) 1 B) $\sqrt{2}$ C) $\frac{3}{2}$ D) $\sqrt{3}$ E) $\frac{7}{2}$

13.



$[AB] \perp [CM]$

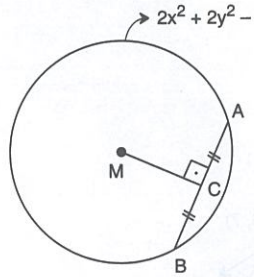
$C = (2, -2)$

$|AC| = |CB|$

$\Rightarrow |AB| = ?$

A) $2\sqrt{2}$ B) $\sqrt{13}$ C) 5 D) $4\sqrt{2}$ E) $2\sqrt{13}$

14.



$[AB] \perp [CM]$

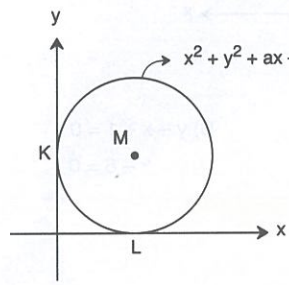
$|AC| = |CB|$

$C = (2, 1)$

$\Rightarrow |AB| = ?$

A) 1 B) $\sqrt{2}$ C) 2 D) $2\sqrt{2}$ E) 4

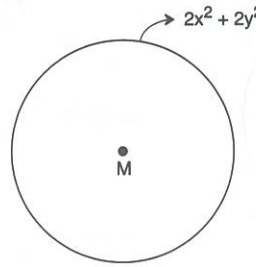
15.



$\Rightarrow a + b = ?$

A) -4 B) 0 C) 2 D) 4 E) 8

16.

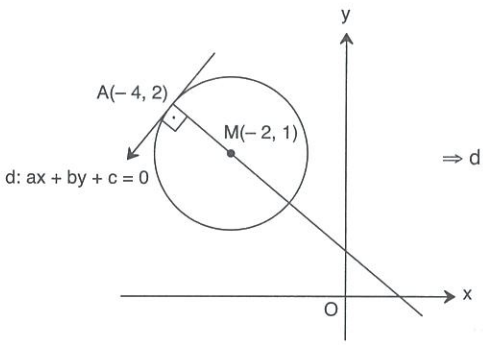


$\Rightarrow ? < k < ?$

A) $(-\infty, 20)$ B) $(-\infty, -20)$ C) $(-\infty, 0)$ D) $(0, \infty)$ E) $(20, \infty)$

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.

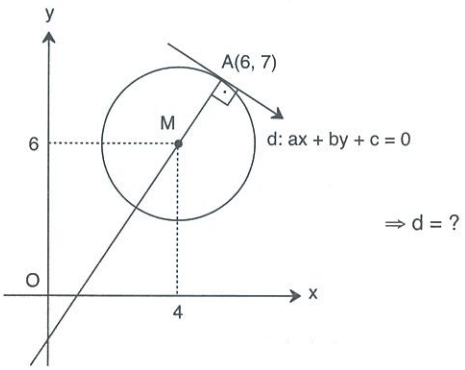


A) $x - y - 8 = 0$ B) $2y + x - 8 = 0$

C) $2y + x - 18 = 0$ D) $y - 2x - 10 = 0$

E) $y - 2x + 6 = 0$

2.

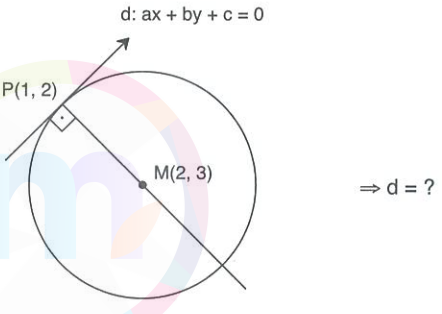


A) $y + 2x - 6 = 0$ B) $y - x + 1 = 0$

C) $y + 2x - 19 = 0$ D) $y + x - 6 = 0$

E) $2x + y - 12 = 0$

3.

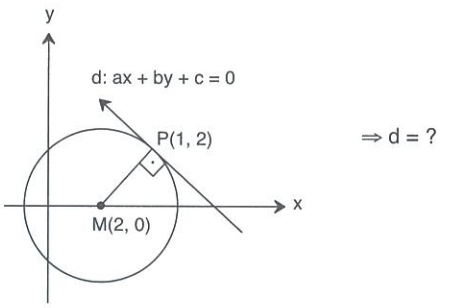


A) $2y - x - 5 = 0$ B) $y - 2x - 4 = 0$

C) $x + y - 3 = 0$ D) $2y + x - 1 = 0$

E) $2y - x - 5 = 0$

4.

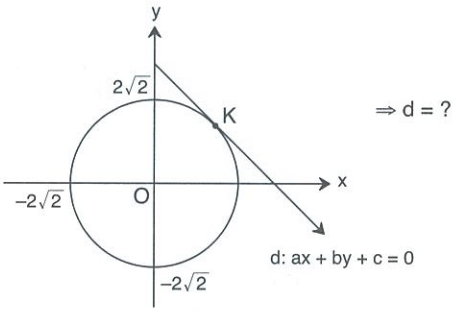


A) $x + 2y - 5 = 0$ B) $2y - x - 3 = 0$

C) $y - 2x - 4 = 0$ D) $y + 2x - 4 = 0$

E) $y + 2x - 3 = 0$

5.



A) $x - y = 2$ B) $x + y = 2$ C) $x + 2y = 2$

D) $x + y = 4$ E) $2x + y = 2$

6. $(x - 1)^2 + (y - 2)^2 = 4$ çemberinin dışındaki A(–1, 1) noktasından çizilen tegetlerden birinin denklemi nedir?

What is one of the equations of tangents which are drawn from a point A(–1, 1) outside the circle $(x - 1)^2 + (y - 2)^2 = 4$?

A) $3x - y - 4 = 0$ B) $2x + y - 2 = 0$

C) $3x + 4y - 1 = 0$ D) $x - y + 1 = 0$

E) $2x + y - 1 = 0$

7. $(x - 1)^2 + (y - 1)^2 = 1$ çemberinin dışındaki A(0, 3) noktasından çizilen tegetlerden birinin denklemi nedir?

What is one of the equations of tangents which are drawn from a point A(0, 3) outside the circle $(x - 1)^2 + (y - 1)^2 = 1$?

A) $3x - y - 6 = 0$ B) $x + y - 3 = 0$

C) $3x + 4y - 12 = 0$ D) $2x - y - 6 = 0$

E) $x + y - 5 = 0$

8. $x^2 + y^2 = 5$ çemberinin dışındaki A(3, 1) noktasından çizilen tegetlerden birinin denklemi nedir?

What is one of the equations of tangents which are drawn from a point A(3, 1) outside the circle $x^2 + y^2 = 5$?

A) $x + y - 1 = 0$ B) $x - 2y - 1 = 0$

C) $x - y - 1 = 0$ D) $x + y + 2 = 0$

E) $y - 2x + 5 = 0$

PUZA YAYINLARI
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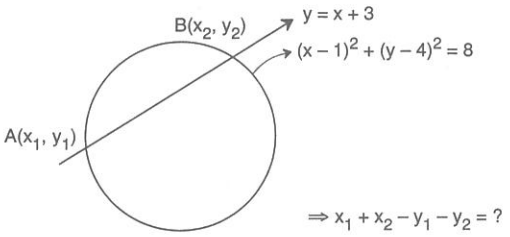
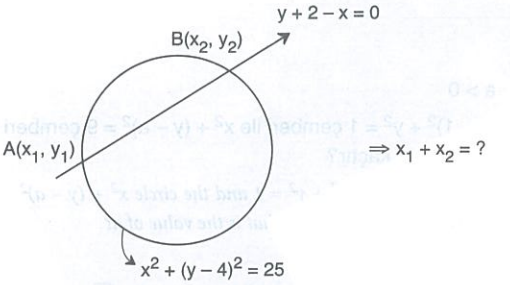
9.



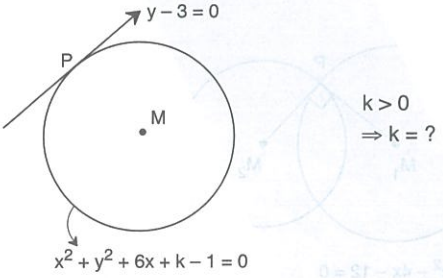
A) – 6 B) 0 C) 2 D) 4 E) 5

10.



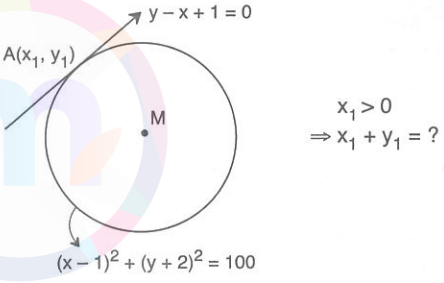
A) – 6 B) – 3 C) 0 D) 3 E) 6

11.



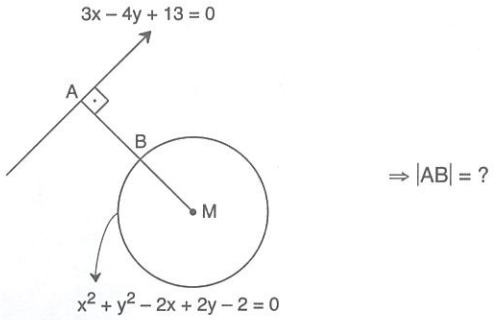
A) 5 B) 4 C) 3 D) 2 E) 1

12.



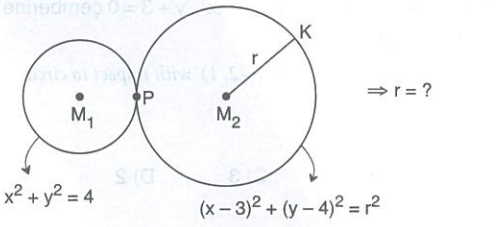
A) 8 B) 10 C) 13 D) 15 E) 16

13.



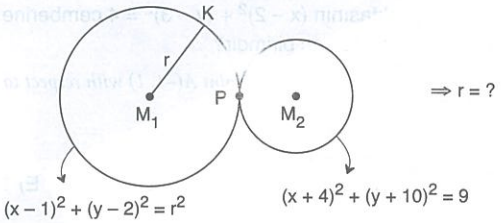
A) 1 B) 2 C) 3 D) 4 E) 5

14.



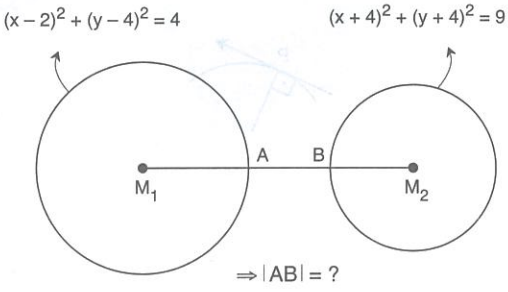
A) 1 B) 3 C) 4 D) 6 E) 9

15.



A) 12 B) 10 C) 9 D) 8 E) 7

16.



A) 6 B) 5 C) 4 D) 3 E) 2

PUZA YAYINLARI
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1. A(1, 2) noktasının $x^2 + y^2 + 2x - y + 1 = 0$ çemberine göre kuvveti nedir?

What is the power of point A(1, 2) with respect to circle $x^2 + y^2 + 2x - y + 1 = 0$?

A) 36 B) 12 C) 10 D) 6 E) 4

2. A(–2, 1) noktasının $x^2 + y^2 + 2x - y + 3 = 0$ çemberine göre kuvveti nedir?

What is the power of point A(–2, 1) with respect to circle $x^2 + y^2 + 2x - y + 3 = 0$?

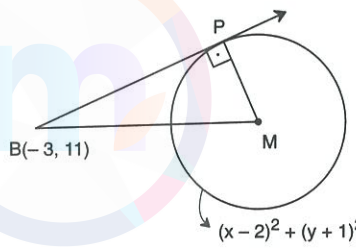
A) 15 B) 4 C) 3 D) 2 E) 1

3. A(–1, 1) noktasının $(x - 2)^2 + (y - 3)^2 = 4$ çemberine göre kuvvet uzunluğu kaç birimdir?

What is the lenght of power of foint A(–1, 1) with respect to a circle $(x - 2)^2 + (y - 3)^2 = 4$?

A) 6 B) 5 C) 3 D) 2 E) 1

4.



$[BP] \perp [PM]$
$\Rightarrow |PB| = ?$

A) 20 B) 16 C) 14 D) 12 E) 10

5. $(x - a)^2 + y^2 = a^2$ çemberi ile $x^2 + (y - 3)^2 = 1$ çemberi dıştan teget ise a kaçtır?

If the circle $(x - a)^2 + y^2 = a^2$ and the circle $x^2 + (y - 3)^2 = 1$ are externally tangents then what is the value of a?

A) 5 B) 4 C) $\frac{7}{2}$ D) 3 E) $\frac{5}{2}$

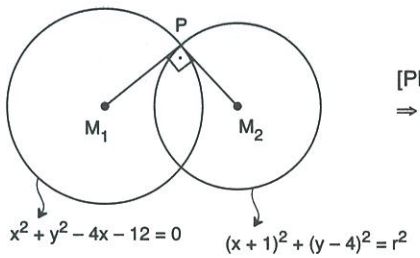
6. $a > 0$

$(x - 1)^2 + y^2 = 1$ çemberi ile $x^2 + (y - a)^2 = 9$ çemberi içten teğet ise a kaçtır?

If the circle $(x - 1)^2 + y^2 = 1$ and the circle $x^2 + (y - a)^2 = 9$ are internally tangents, then what is the value of a?

A) $4\sqrt{2}$ B) 4 C) 3 D) $\sqrt{3}$ E) $\sqrt{2}$

7.



$[PM_1] \perp [PM_2]$
$\Rightarrow r = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

8. $(x + 2)^2 + (y - 3)^2 = 25$ çemberi ile $x^2 + (y + 2)^2 = r^2$ çemberi dik kesiştiğine göre r kaçtır?

In case the circle $(x + 2)^2 + (y - 3)^2 = 25$ and the circle $x^2 + (y + 2)^2 = r^2$ are intersecting at right angles, then what is the value of r?

A) $2\sqrt{5}$ B) 4 C) $\sqrt{6}$ D) $\sqrt{5}$ E) 2

PUZA YAYINLARI

9. $x = 2\cos t - 1$

$y = 2\sin t$

sistemine karşılık gelen çemberin denklemi nedir?

What is the equation of the circle that corresponds to the system $x = 2\cos t - 1$, $y = 2\sin t$?

A) $(x+1)^2 + y^2 = 4$ B) $x^2 + (y+1)^2 = 2$

C) $(x-1)^2 + y^2 = 2$ D) $(x-1)^2 + y^2 = 8$

E) $x^2 + (y-1)^2 = 2$

10. $x^2 + y^2 = 10$ çemberinin parametrik denklemi nedir?

What is the parametric equation of the circle $x^2 + y^2 = 10$?

A) $y = \cos\alpha$
$y = \sin\alpha$

B) $x = \sqrt{10}\cos\alpha$
$y = \sqrt{10}\sin\alpha$

C) $x = 10\cos\alpha$
$y = 10\sin\alpha$

D) $x = 5\cos\alpha$
$y = 5\sin\alpha$

E) $x = 25\cos\alpha$
$y = 25\sin\alpha$

11. $x = 1 + 5\sin\alpha$

$y = -2 + 5\cos\alpha$

sistemine karşılık gelen çemberin denklemi nedir?

What is the equation of the circle that corresponds to the system $x = 1 + 5\sin\alpha$, $y = -2 + 5\cos\alpha$

A) $(x-2)^2 + (y+1)^2 = 25$ B) $(x-1)^2 + (y+2)^2 = 25$

C) $(x+1)^2 + (y-2)^2 = 25$ D) $(x-1)^2 + (y-2)^2 = 25$

E) $(x-1)^2 + (y-2)^2 = 25$

12. Denklemleri $x^2 + y^2 - 2x + y - 6 = 0$ ve $x^2 + y^2 + 3x - y - 1 = 0$ olan çemberlerin kuvvet ekseninin denklemi nedir?

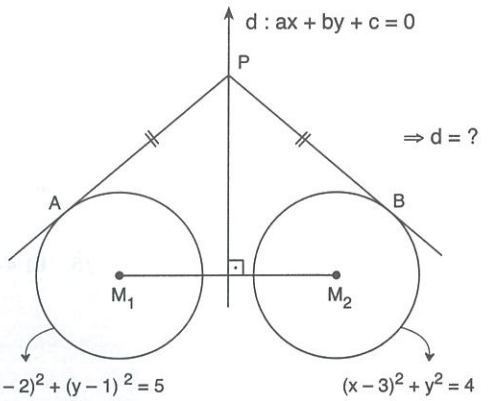
What is the equation of the radical axis of the circles with the equations $x^2 + y^2 - 2x + y - 6 = 0$ and $x^2 + y^2 + 3x - y - 1 = 0$?

A) $2y - 5x - 5 = 0$ B) $y - x - 4 = 0$

C) $-x - 5 = 0$ D) $x + 2y - 2 = 0$

E) $2x - y - 6 = 0$

13.



A) $x - y + 2 = 0$ B) $2x - y + 1 = 0$

C) $2y - 2x + 3 = 0$ D) $2x + y - 1 = 0$

E) $2x - 2y - 5 = 0$

14. $x^2 + y^2 - 2x + y - 6 = 0$

$x^2 + y^2 + 3x - 5y - 1 = 0$

çemberlerinin kesim noktalarından geçen doğrunun denklemi nedir?

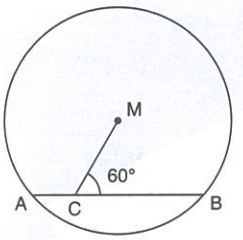
What is the equation of the line that passes through the intersecting point of $x^2+y^2-2x+y-6=0$, $x^2+y^2+3x-5y-1=0$ circles?

A) $x - 4y - 7 = 0$ B) $5x - 6y + 5 = 0$

C) $5x - 6y - 5 = 0$ D) $x + y - 5 = 0$

E) $-x + 4y - 5 = 0$

15.



M(–4, 2)

$|CB| = (2\sqrt{3} + 8)$ br

$|MC| = 4\sqrt{3}$ br

$m(\widehat{MCB}) = 60°$

Şekildeki çemberin denklemi aşağıdakilerden hangisidir.

Which of the following is the equation of the given circle above?

A) $(x+4)^2 + (y-4)^2 = 100$

B) $(x-2)^2 + (y+4)^2 = 10$

C) $(x+4)^2 + (y-2)^2 = 10$

D) $(x-2)^2 + (y-2)^2 = 100$

E) $(x+4)^2 + (y-2)^2 = 100$

16. $x^2 + y^2 - x + y - 1 = 0$

$x^2 + y^2 - 2x + y - 2 = 0$

Çemberlerinin kesim noktalarından geçen doğrunun denklemi nedir?

What is the equation of the line that passes through the intersecting point of $x^2 + y^2 - x + y - 1 = 0$, $x^2 + y^2 - 2x + y - 2 = 0$ circles?

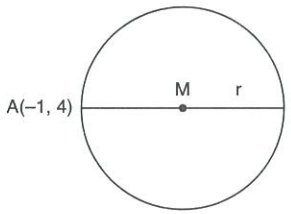
A) $x - 4y - 7 = 0$ B) $5x + 4y - 5 = 0$

C) $5x - 6y - 5 = 0$ D) $x + 1 = 0$

E) $-x + 4y - 5 = 0$

PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

1.

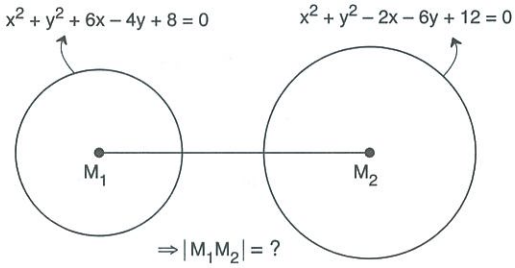


[AB] çaplı çemberin yarıçapı nedir?

What is the radius of circle with a diameter [AB]?

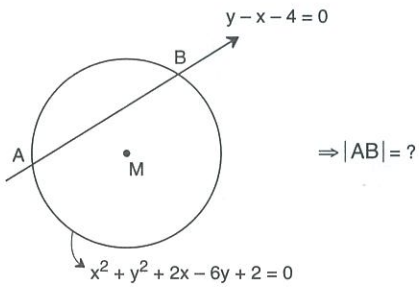
A) $\sqrt{2}$ B) $\sqrt{5}$ C) 4 D) $2\sqrt{5}$ E) $4\sqrt{5}$

2.



A) $2\sqrt{7}$ B) $2\sqrt{5}$ C) $\sqrt{17}$ D) 4 E) $\sqrt{10}$

3.



A) 8 B) $4\sqrt{2}$ C) 4 D) $3\sqrt{2}$ E) 3

4. $(x + 2)^2 + (y - 5)^2 = 26$

çemberine üzerindeki A(–1, 10) noktasında çizilen teget denklemi nedir?

What is the equation of tangent which is drawn from a point A(–1, 10) at the circle $(x + 2)^2 + (y - 5)^2 = 26$?

A) $x + y - 1 = 0$ B) $5x + y - 49 = 0$

C) $5y + x - 49 = 0$ D) $5x + y - 1 = 0$

E) $x + y - 4 = 0$

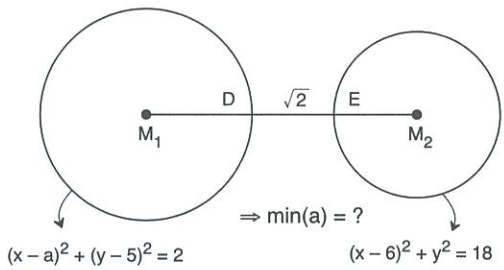
5. $x^2 + y^2 - 4x + 2y + k = 0$

çemberinin yarıçapı 3 br ise k kaçtır?

If the radius of the $x^2 + y^2 - 4x + 2y + k = 0$ circle is 3 units, then what is the value of k?

A) –10 B) – 9 C) – 8 D) – 5 E) – 4

6.



A) – 2 B) –1 C) 1 D) 2 E) 3

7. A(–1, –2) noktasından 2 br uzaklıktakı noktaların geometrik yerinin denklemi nedir?

What is the geometrical locus equation of the points which are at a distance of 2 units from the point A (–1, –2) ?

A) $x^2 + y^2 = 4$ B) $(x - 1)^2 + (y + 4)^2 = 4$

C) $(x - 1)^2 + (y + 2)^2 = 4$ D) $(x - 1)^2 + (y + 2)^2 = 2$

E) $(x + 1)^2 + (y + 2)^2 = 4$

8. A(3, 2) noktasından 1 br uzaklıktaki noktaların geometrik yerinin denklemi nedir?

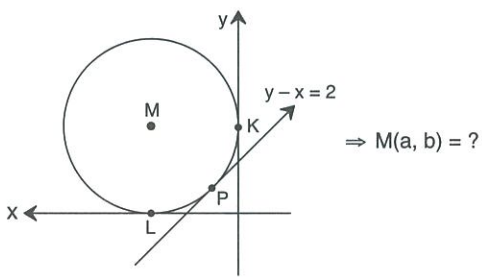
What is the geometrical locus equation of the points which are at a distance of 1 units from the point A (3, 2) ?

A) $(x - 3)^2 + (y - 2)^2 = 1$ B) $x^2 + y^2 = 1$

C) $(x - 2)^2 + (y - 1)^2 = 1$ D) $(x - 4)^2 + (y - 3)^2 = 1$

E) $(x + 2)^2 + (y + 1)^2 = 1$

9.



A) (–2, 2) B) $(-\sqrt{2}, \sqrt{2})$

C) $(2-\sqrt{2}, 2+\sqrt{2})$ D) $(-2+\sqrt{2}, 2-\sqrt{2})$

E) $(-2-\sqrt{2}, 2+\sqrt{2})$

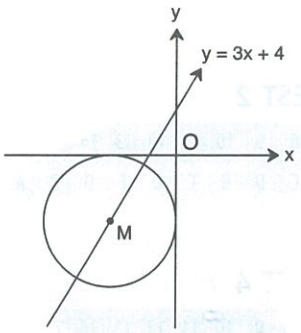
PUZA YAYINLARI

10. $kx^2 + 2y^2 - (k + 6)x - 16y + 8 = 0$ çemberinin yarıçapı kaçtır?

What is the radius of the $kx^2 + 2y^2 - (k + 6)x - 16y + 8 = 0$ circle?

A) 2 B) 3 C) 4 D) 5 E) 6

11.

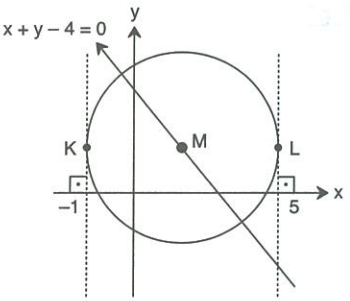


M merkezli çemberin yarıçapı kaç br'dir?

How many unit is the radius of a circle with a center M?

A) 1 B) 2 C) 3 D) 4 E) 5

12.



M merkezli çember

The circle with a center M

⇒ M(a, b) = ?

A) (1, 3) B) (–1, 2) C) (2, 2) D) (1, 4) E) (3, 2)

13. A(0, 3) noktasından $x^2 + y^2 - 4x + 2y + 1 = 0$ çemberine çizilen teget denklemi nedir?

What is the equation of tangent which is drawn from a point A(0, 3) to the $x^2 + y^2 - 4x + 2y + 1 = 0$ circle?

A) $3x + 4y - 12 = 0$ B) $x - y - 2 = 0$

C) $x - 2 = 0$ D) $2x + y - 10 = 0$

E) $y + 3 = 0$

14. A(1,1) noktasının $y = mx + 1$ doğrusuna göre simetrisinin geometrik yer denklemi nedir?

What are geometrical locus which is the symmetry of point A(1, 1) as per the $y = mx + 1$ line?

A) $x^2 + y^2 = 2$

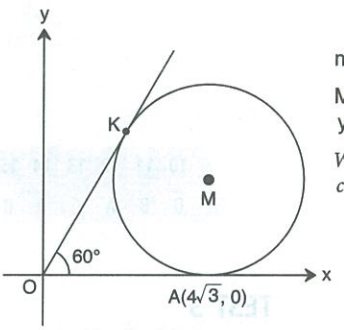
B) $(x - 1)^2 + (y - 2)^2 = 4$

C) $(x - 1)^2 + (y + 2)^2 = 2$

D) $(x - 1)^2 + (y - 1)^2 = 4$

E) $x^2 + y^2 = 4$

15.



$m(\widehat{KOA}) = 60°$

M merkezli çemberin yarıçapı nedir?

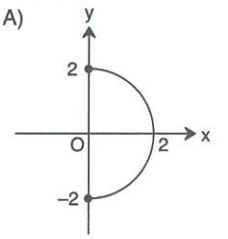
What is the radius of circle with a center M?

A) $2\sqrt{3}$ B) 4 C) $3\sqrt{2}$ D) 5 E) $4\sqrt{3}$

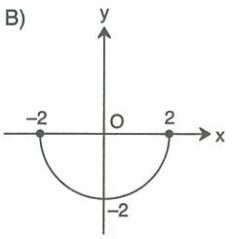
16. $y = \sqrt{4 - x^2}$ denklemine ait grafik aşağıdakilerden hangisidir?

Which is the graph belongs to $y = \sqrt{4 - x^2}$ line equation amongst the following ones?

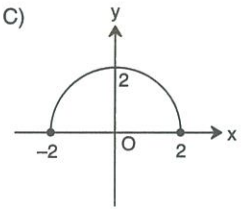
A)



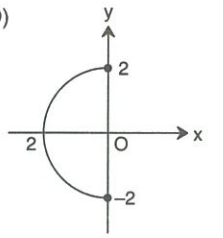
B)



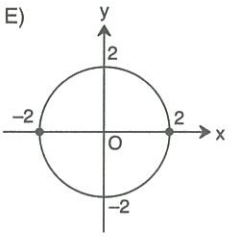
C)



D)



E)



PUZA YAYINLARI PUZA YAYINLARI PUZA YAYINLARI

ÇEMBER ANALİTİĞİ
Yanıt Anahtarı

ANALYTIC GEOMETRY-CIRCLE
Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E	B	E	B	B	A	D	C	D	D	B	A	C	D	B	B

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	D	B	E	D	E	C	C	D	B	C	D	E	D	B	A

TEST 3

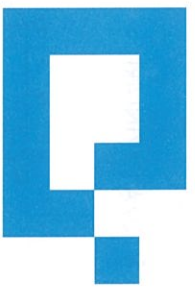
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	C	B	D	C	C	E	A	E	E	C	B	B	B	B

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	C	D	B	D	C	E	A	B	B	A	E	B	E	D

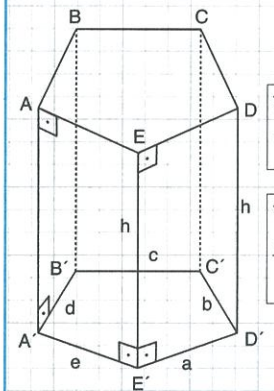
TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	C	B	C	E	C	E	A	E	C	B	C	A	D	B	C



KATI CİSİM
SOLID OBJECT

ÖZELLİK|Property 1 — Dik Prizma / *Right Prism*



$V_{(Hacim)}$ = Taban alanı · yükseklik (h)

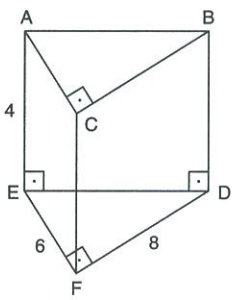
$V_{(Volume)}$ = *Bottom area · height (h)*

Yanal Alan = Taban çevresi · yükseklik

Lateral Area = Bottom circumface · height

= (a + b + c + d + e) · h

1.

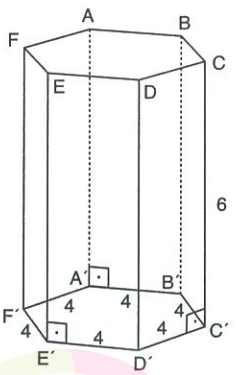


$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

96

2.



ABCDEF altıgen

ABCDEF hexagon

$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

$144\sqrt{3}$

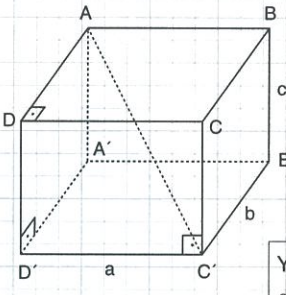
3. Taban çevresi 12 cm ve yüksekliği 6 cm olan dik prizmanın yanal alanı kaç cm^2'dir?

How many cm^2 is the lateral area of a right prism having a bottom circumference of 12 cm and a height of 6 cm?

72

PUZA YAYINLARI

ÖZELLİK|Property 2 — Dikdörtgenler Prizması / *Rectangular prism*



$V_{(Hacim)} = a \cdot b \cdot c$

$V_{(Volume)} = a \cdot b \cdot c$

Yanal alan = $2(a + b) \cdot c$

Lateral area = $2(a + b) \cdot c$

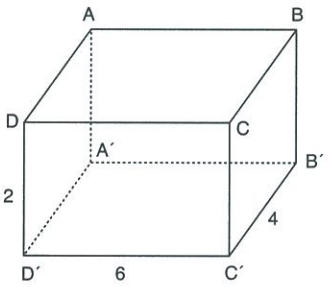
Yüzey Alanı = $2(ab + ac + bc)$

Surface area = $2(ab + ac + bc)$

Cisim Köşegeni = $|AC'| = \sqrt{a^2 + b^2 + c^2}$

Solid diagonal

1.



$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

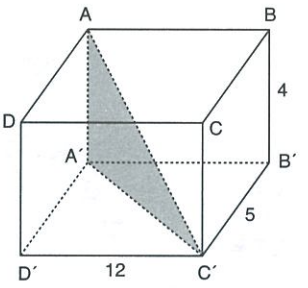
$\Rightarrow$ Yüzey Alanı = ?

Surface Area = ?

$\Rightarrow |BD'| = ?$

$48, 88, 2\sqrt{14}$

2.



$\Rightarrow A(AA'C') = ?$

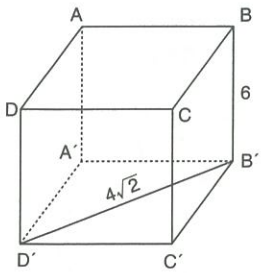
26

3. Hacmi 100 cm^3 ve yüksekliği 4 cm olan kare dik prizmanın alanı kaç cm^2'dir?

How many cm^2 is the area of a square right prism having a volume of 100 cm^3 and a height of 4 cm?

130

4.



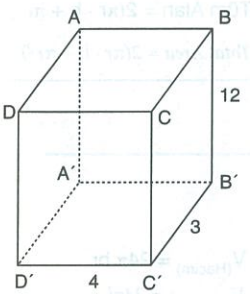
ABCD kare *(square)*

$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

96

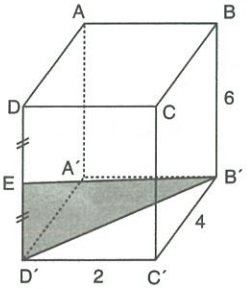
5.



$\Rightarrow |AC'| = ?$

13

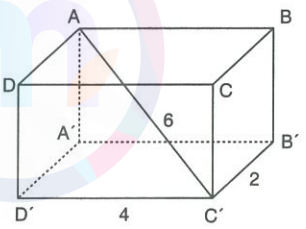
6.



$\Rightarrow A(ED'B') = ?$

$3\sqrt{5}$

7.



$\Rightarrow V_{(Hacim)} = ?$

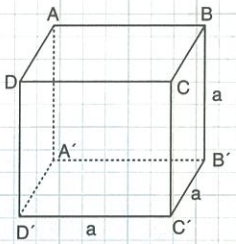
$V_{(Volume)} = ?$

32

PUZA YAYINLARI

ÖZELLİK|Property 3

Küp
Cube



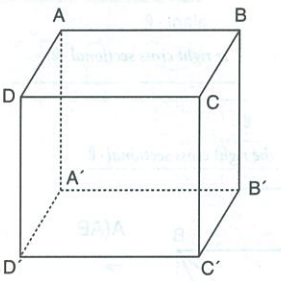
$V_{(Hacim)} = a^3$
$V_{(Volume)} = a^3$

Yanal Alan $= 4a^2$
Lateral area $= 4a^2$

Yüzey Alanı $= 6a^2$
Surface area $= 6a^2$

Cisim Köşegeni $= |AC'| = a\sqrt{3}$
Object diagonal $= |AC'| = a\sqrt{3}$

1.



Şekil bir küp
A form cube

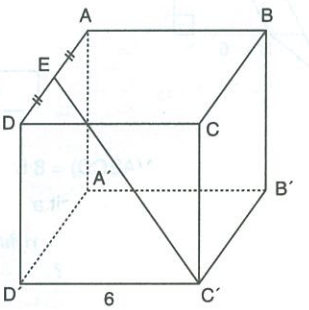
$|AC'| = 5\sqrt{3}$ cm

$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

125

2.

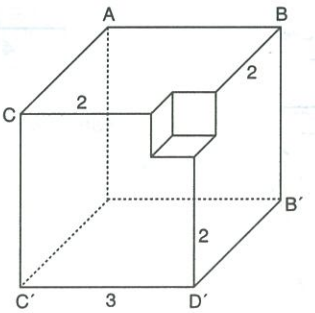


Şekil bir küp
A form cube

$\Rightarrow |EC'| = ?$

9

3.

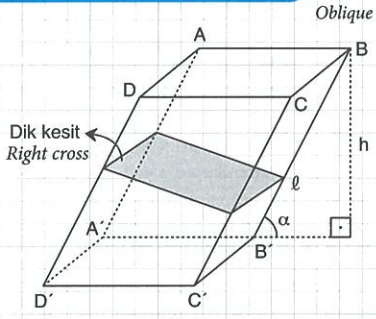


Şekildeki küpün köşesinden bir parça küp çıkartılıyor. Geri kalan cismin yüzey alanı kaç cm^2'dir?

A piece of cube form is cut off at a corner of the cube shown as figure. How many cm^2 is the lateral surface of the remaining solid?

54

ÖZELLİK|Property 4 — Eğik Prizma *Oblique Prism*



Dik kesit alanı = Taban alanı · sinα

Area of the right cross sectional = Bottom area · sinα

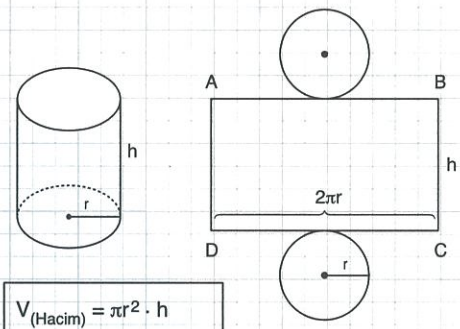
$V_{(Hacim)}$ = Taban alanı · h = Dik kesit alanı · ℓ

$V_{(Volume)}$ = *Bottom area · h = Area of the right cross sectional · ℓ*

Yanal alan = Dik kesit çevresi · ℓ

Lateral area = Circumference of the right cross sectional · ℓ

ÖZELLİK|Property 5 — Silindir *Cylinder*



$V_{(Hacim)} = \pi r^2 \cdot h$

$V_{(Volume)} = \pi r^2 \cdot h$

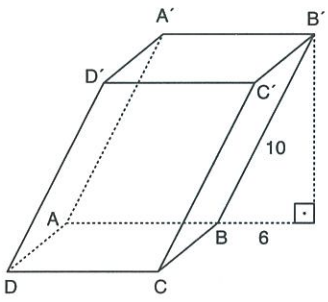
Yanal Alan $= 2\pi r \cdot h$

Lateral Area $= 2\pi r \cdot h$

Tüm Alan $= 2(\pi r \cdot h + \pi r^2)$

Total Area $= 2(\pi r \cdot h + \pi r^2)$

1.



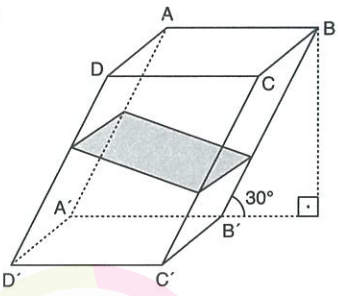
$A(ABCD) = 10\ br^2$

$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

80

2.



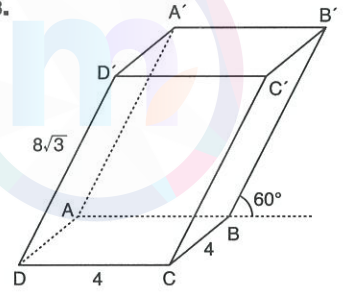
$A(ABCD) = 8\ br^2$

$\Rightarrow$ Dik kesit alanı = ?

Area of the right cross sectional = ?

4

3.



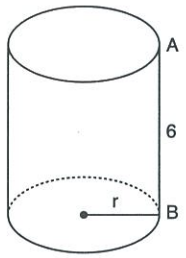
ABCD kare *(square)*

$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

192

1.



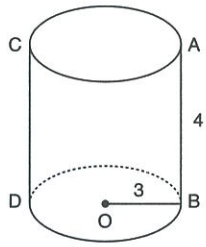
$V_{(Hacim)} = 24\pi\ br^3$

$V_{(Volume)} = 24\pi br^3$

$\Rightarrow r = ?$

2

2.

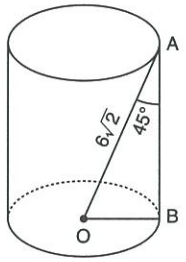


$\Rightarrow$ Yüzey Alanı = ?

Surface Area = ?

42π

3.



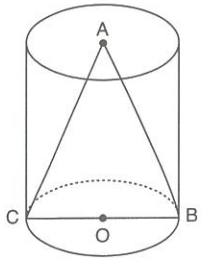
$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

216π

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

4.



ABC eşkenar üçgen

ABC equilateral triangle

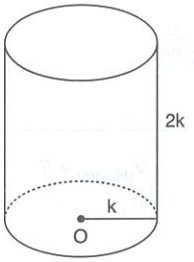
$|AC| = 6$ br

$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

$27\sqrt{3}\pi$

5.



$V_{(Hacim)} = 128\pi$

$V_{(Volume)} = 128\pi$

$\Rightarrow$ Yüzey Alanı = ?

Surface Area = ?

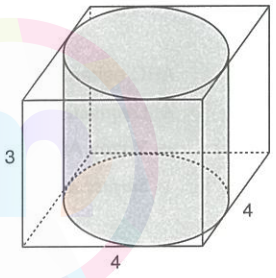
96π

6. Hacmi 18π cm^3 olan 3 cm yarıçapındaki silindirin yanal alanı kaç cm^2'dir?

How many cm^2 is the lateral area of a cylinder having a volume of 18 cm^3 and with a radius of 3 cm?

12π

7.



Dik prizmanın içine silindir yerleştirilmiştir. Silindir ile prizma arasındaki boşluğun hacmi en az kaç cm^3'tür?

A cylinder is placed inside of a right prism. What is the minimum cm^3 of the space volume between the cylinder and prism?

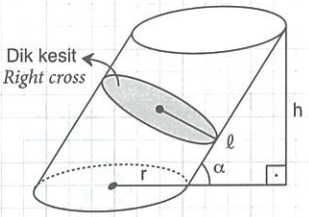
$48 - 12\pi$

PUZA YAYINLARI

ÖZELLİK|Property 6

Eğik Silindir

Oblique Cylinder



Yanal Alan = Dik kesit çevresi · ℓ

Lateral Area = Circumference of the right cross sectional · ℓ

Dik Kesit Alanı = Taban Alanı · sinα

Area of the right cross sectional = Bottom area · sinα

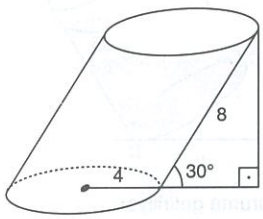
$V_{(Hacim)}$ = Taban Alanı · h = Dik kesit alanı · ℓ

$V_{(Volume)}$ = *Bottom area · h*

= *Area of the right cross sectional · ℓ*

PUZA YAYINLARI

1.

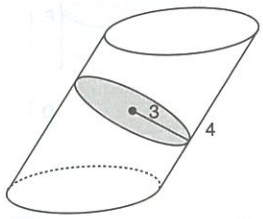


$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

64π

2.



$\Rightarrow$ Yanal alan = ?

Lateral area = ?

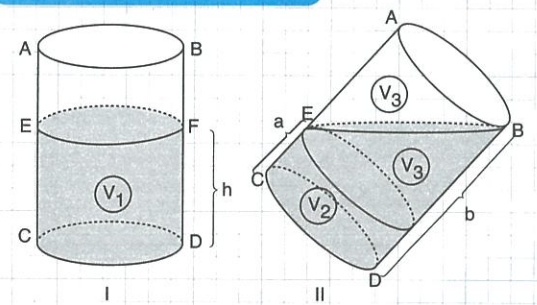
24π

3. Taban düzlemi ile 60° açı yapan eğik silindirin taban alanı 18 cm^2 ise dik kesit alanı kaç cm^2'dir?

If the bottom area of an oblique cylinder making an angle of 60° with the bottom plane is 18 cm^2, how many cm^2 is the right cross sectional area of that cylinder?

$9\sqrt{3}$

ÖZELLİK|Property 7



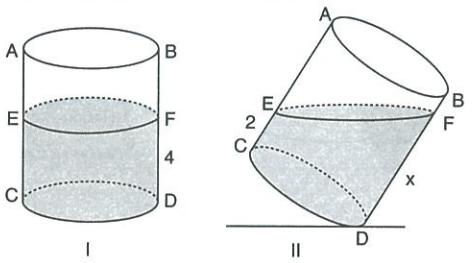
Silindir I. durumdan II. duruma getiriliyor.

Cylinder turns from I. situation to II. situation.

$V_1 = V_2 + V_3$

$h = \frac{a+b}{2}$

1.



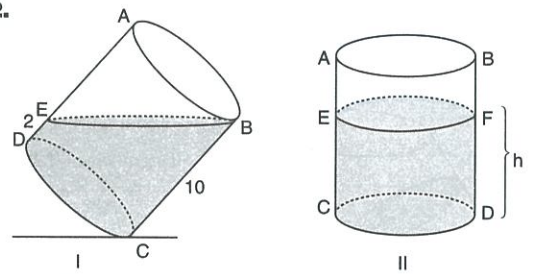
Silindir I. durumdan II. duruma getiriliyor.

Cylinder I situation II brought the situation

⇒ x = ?

6

2.



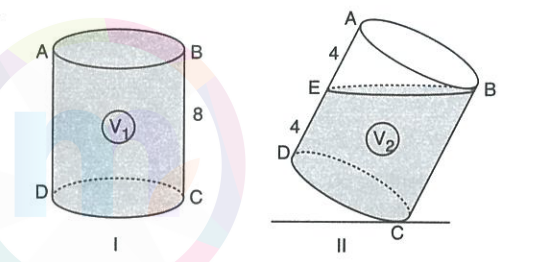
Silindir I. durumdan II. duruma getiriliyor.

Cylinder turns from I. situation to II. situation.

⇒ h = ?

6

3.



Silindir I. durumdan II. duruma getiriliyor.

Cylinder turns from I. situation to II. situation.

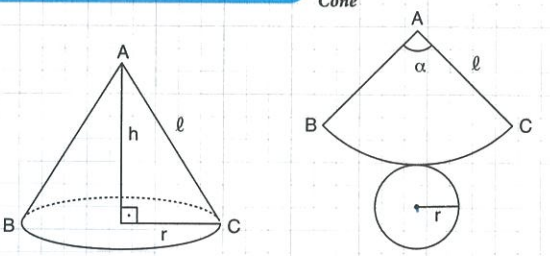
$\Rightarrow \frac{V_1}{V_2} = ?$

4/3

ÖZELLİK|Property 8

Koni

Cone



$V_{(Hacim)} = \frac{\pi r^2 \cdot h}{3}$

$V_{(Volume)}$

Yüzey Alanı = $\pi r^2 + \pi r\ell$

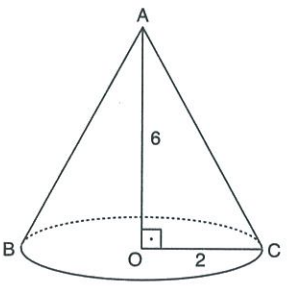
Surface Area

Yanal alan = $\pi r\ell$

Lateral area

$2\pi r = 2\pi\ell \cdot \frac{\alpha}{360°} \Rightarrow r = \ell \cdot \frac{\alpha}{360°}$

1.

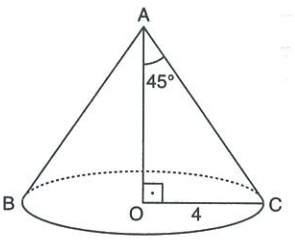


⇒ $V_{(Hacim)}$ = ?

$V_{(Volume)}$ = ?

8π

2.

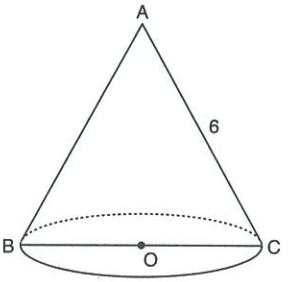


⇒ Yanal Alan = ?

Lateral Area = ?

$16\sqrt{2}\pi$

3.



ABC eşkenar üçgen

ABC equilateral triangle

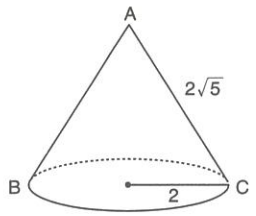
⇒ Yüzey Alanı = ?

Surface Area = ?

27π

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

4.

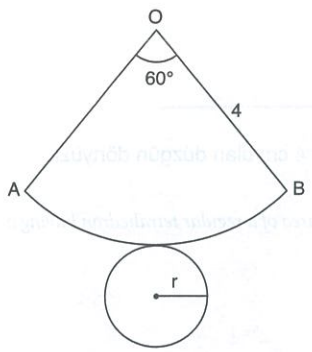


$\Rightarrow V_{(Hacim)} = ?$

$V_{(Volume)} = ?$

$\frac{16\pi}{3}$

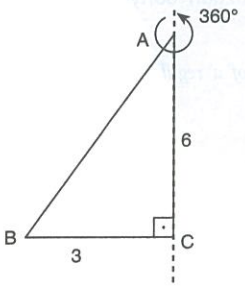
5.



$\Rightarrow r = ?$

$\frac{2}{3}$

6.

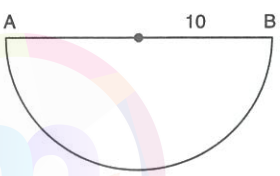


Yandaki şekilde, [AC] kenarı etrafında 360° döndürülmesi ile oluşan şeklin hacmi kaç cm^3'tür?

As a result of a 360° revolving of the figure adjoining around the [AC] edge, how many cm^3 is the volume of the solid formed?

18π

7.



Şekildeki daire dilimi yanal alan olacak şekilde kıvrılarak bir koni oluşturuluyor. Bu koninin hacmi kaç br^3'tür?

As shown in the picture, a slice of circle is curled in order to form a surface area and formed a cone. How many $unit^3$ is the volume of this cone?

$\frac{125\sqrt{3}\pi}{3}$

PUZA YAYINLARI

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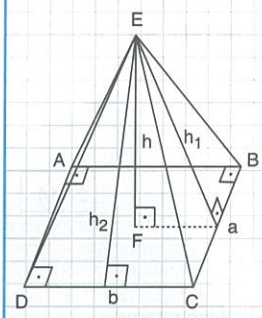
PUZA YAYINLARI

ÖZELLİK | Property 9

Piramit

Pyramid



$V_{(Hacim)} = \frac{a \cdot b \cdot h}{3}$

$V_{(Volume)}$

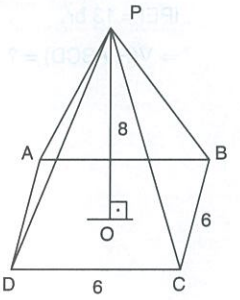
Yanal Alan $= a \cdot h_1 + b \cdot h_2$

Lateral Area

Yüzey Alanı $= a \cdot h_1 + b \cdot h_2 + ab$

Surface Area

1.



Kare piramit

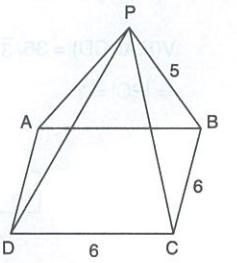
Square pyramid

$|PO| = 8$ br

$\Rightarrow V(P, ABCD) = ?$

96

2.



Kare piramit

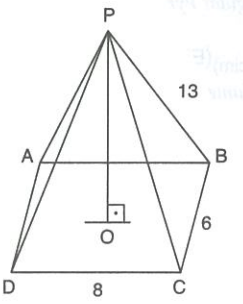
Square pyramid

$\Rightarrow$ Yanal Alan = ?

Lateral Area = ?

48

3.



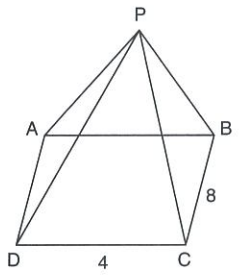
Dikdörtgen piramit

Rectangle pyramid

$\Rightarrow V(P, ABCD) = ?$

192

4.



Dikdörtgen piramit

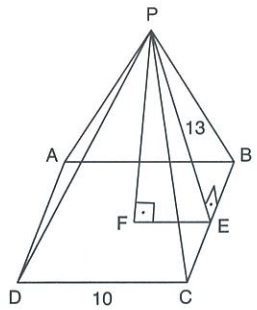
Rectangle pyramid

$V(P, ABCD) = 64\ br^2$

$\Rightarrow |PD| = ?$

$2\sqrt{14}$

5.



Kare piramit

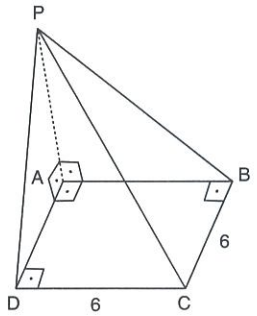
Square pyramid

$|PE| = 13\ br$

$\Rightarrow V(P, ABCD) = ?$

400

6.



Kare Piramit

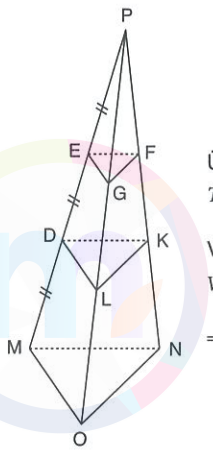
Square Pyramid

$V(P,ABCD) = 36\sqrt{3}\ br^3$

$\Rightarrow |PC| = ?$

$3\sqrt{11}$

7.



Üçgen Piramit

Triangular Pyramid

$V_{(Hacim)}(EFG, DLK) = 14\ br^3$

V(Volume)

$\Rightarrow V_{(Hacim)}(DLK,MON) = ?$

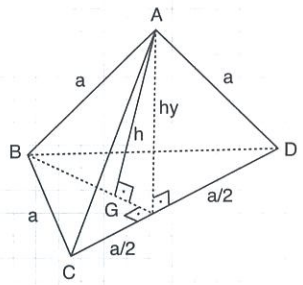
V(Volume)

38

PUZA YAYINLARI

ÖZELLİK|Property 10 Düzgün Dörtyüzlü

Regular Tetrahedron



$h = \frac{a\sqrt{6}}{3}$

$h_y = \frac{a\sqrt{3}}{2}$

Yüzey Alanı $= a^2\sqrt{3}$

Surface Area

$V_{(Hacim)} = \frac{a^3\sqrt{2}}{12}$

$V_{(Volume)}$

1. Bir ayrıtın uzunluğu 4 cm olan düzgün dörtyüzlünün alanı kaç cm^2'dir?

How many cm^2 is the area of a regular tetrahedron having an edge of 4 cm?

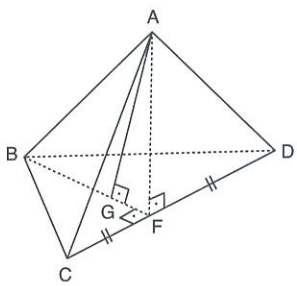
$16\sqrt{3}$

2. Hacmi $18\sqrt{2}\ cm^3$ olan düzgün dörtyüzlünün alanı kaç cm^2'dir?

How many cm^2 is the area of a regular tetrahedron having a volume of $18\sqrt{2}\ cm^3$?

$36\sqrt{3}$

3.



Düzgün dörtyüzlü

Regular tetrahedron

G, BDC'nin ağırlık merkezi

G is the center of gravity of a triangle BDC

$|AF| = 4\sqrt{3}\ br$

$\Rightarrow V(A,BDC) = ?$

$\frac{128\sqrt{2}}{3}$

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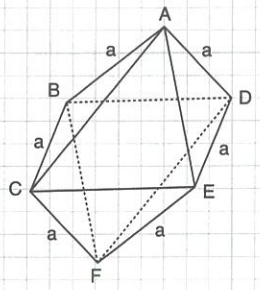
ÖZELLİK|Property 11

Düzgün Sekizyüzlü
Regular Octahedron



$V_{(Hacim)} = \frac{a^3\sqrt{2}}{3}$
$V_{(Volume)}$

Yüzey Alanı = $2a^2\sqrt{3}$
Surface Area

1. Bir ayrıtı 6 cm olan düzgün sekizyüzlünün hacmi kaç cm^3'tür?

How many cm^3 is the volume of a regular octahedron having an edge of 6 cm?

$72\sqrt{2}$

2. Yüzey alanı $32\sqrt{3}$ cm^2 olan düzgün sekizyüzlünün bir ayrıtının uzunluğu kaç cm'dir?

How many cm of one edge of a regular octahedron having a total area of $32\sqrt{3}$ cm^2?

4

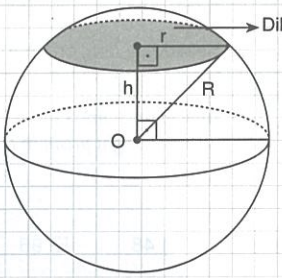
3. Hacmi $9\sqrt{2}$ cm^3 olan düzgün sekizyüzlünün alanı kaç cm^2'tür?

How many cm^2 is the area of a regular octahedron having a volume of $9\sqrt{2}$ cm^3?

$18\sqrt{3}$

ÖZELLİK|Property 12

Küre
Sphere



$V_{(Hacim)} = \frac{4\pi R^3}{3}$
$V_{(Volume)} = \frac{4\pi R^3}{3}$

Yüzey Alanı = $4\pi R^2$
Surface Area = $4\pi R^2$

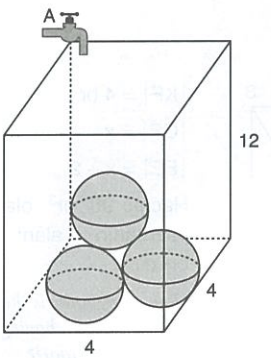
Kesit Alanı = πr^2
Cross Sectional Area = πr^2

1. Yarıçapı 2 cm olan kürenin hacmi kaç cm^3'tür?

How many cm^3 is the volume of a sphere having a radius of 2 cm?

$\frac{32\pi}{3}$

2.



Ayrıtları 4 cm, 4 cm ve 12 cm olan üstü açık prizmaya 2 cm çapındaki 3 bilye atılıyor ve A musluğu açılıyor. Bu prizmanın dolması için musluktan kaç cm^3 su akıtılmalıdır? ($\pi = 3$)

3 pieces of marbles with 2 cm of diameter is dropped into a prism with an opened top having the dimensions / edges of 4 cm, 4 cm and 12 cm and then the tap A is opened. In order to be filled of this prism how many cm^3 of water has to be fed by the tap?

180

3. Yarıçapı 10 cm olan bir kürenin merkezinden 6 cm uzakta alınan kesitin alanı kaç cm^2'dir?

How many cm^2 is the cross sectional area of a sphere cut off 6 cm away from the center of a sphere having a radius of 10 cm?

64π

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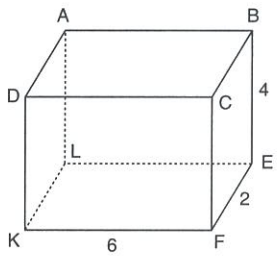
PUZA YAYINLARI

1.



|BE| = 4 br

|EF| = 2 br

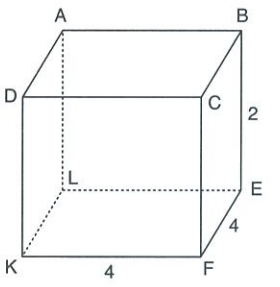
|KF| = 6 br

Şekildeki dik prizmanın hacmi kaç br^3'tür?

How many unit^3 is the volume of right prism in the figure?

A) 18 B) 24 C) 36 D) 48 E) 96

2.



|BE| = 2 br

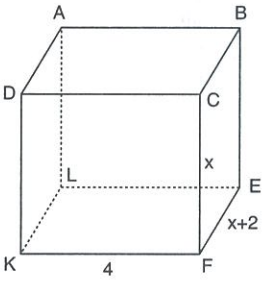
|EF| = |KF| = 4 br

Şekildeki kare dik prizmanın alanı kaç br^2'dir?

How many unit^2 is the area of right prism in the figure?

A) 20 B) 32 C) 48 D) 60 E) 64

3.



|KF| = 4 br

|CF| = x

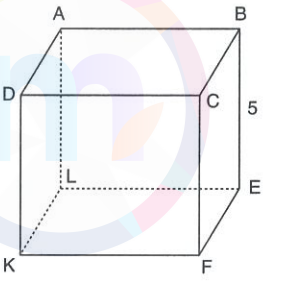
|FE| = x + 2

Hacmi 96 br^3 olan dik prizmanın alanı kaç br^2'dir?

How many unit^2 is the area of a right prism having a volume of 96 unit^3?

A) 32 B) 48 C) 64 D) 96 E) 128

4.



|BE| = 5 br

Şekildeki bir ayrıtı 5 br olan küpün hacmi kaç br^3'tür?

How many unit^3 is the volume of the cube having an edge of 5 unit as in the figure?

A) 5 B) 10 C) 25 D) 50 E) 125

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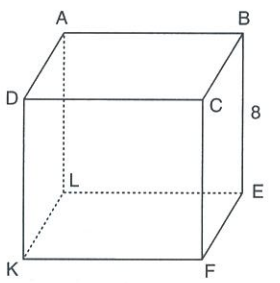
PUZA YAYINLARI

PUZA YAYINLARI

5.



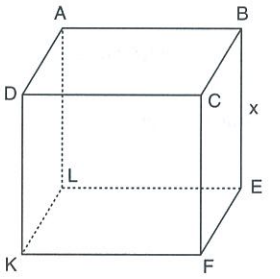
|BE| = 8 br

Şekildeki bir ayrıtı 8 br olan küpün alanı kaç br^2'dir?

How many unit^2 is the surface area of the cube having an edge of 8 unit as in the figure?

A) 384 B) 256 C) 144 D) 64 E) 48

6.



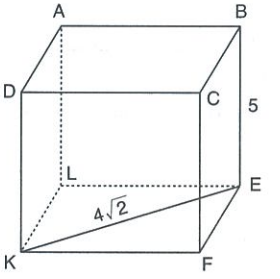
Küpün alanı 96 br^2

The surface area of the cube is 96 unit^2

$\Rightarrow$ |BE| = x = ?

A) 3 B) 4 C) 5 D) 6 E) 7

7.



|EK| = $4\sqrt{2}$ br

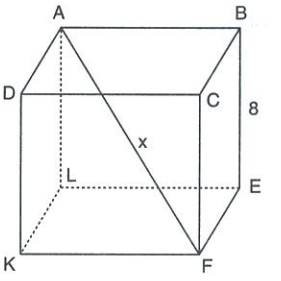
|BE| = 5 br

Şekildeki kare dik prizmanın hacmi kaç br^3'tür?

How many unit^3 is the volume of square right prism in the figure?

A) 160 B) 150 C) 120 D) 100 E) 80

8.



Bir ayrıtı 8 br olan küp

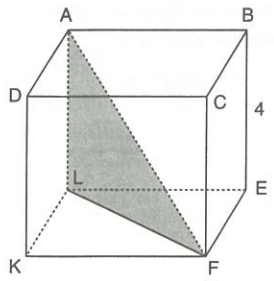
A cube with an edge of 8 units

|BE| = 8 br

$\Rightarrow$ |AF| = x = ?

A) 4 B) $4\sqrt{3}$ C) 8 D) $8\sqrt{3}$ E) 16

9.



Bir ayrıtı 4 br olan küp

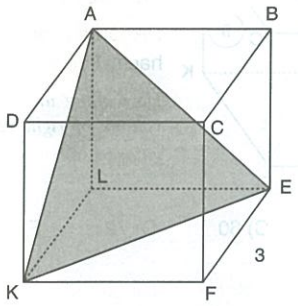
A cube with an edge of 4 units

$|BE| = 4$ br

$\Rightarrow A(ALF) = ?$

A) $4\sqrt{2}$ B) 8 C) $8\sqrt{2}$ D) 16 E) $16\sqrt{2}$

10.



Bir ayrıtı 3 br olan küp

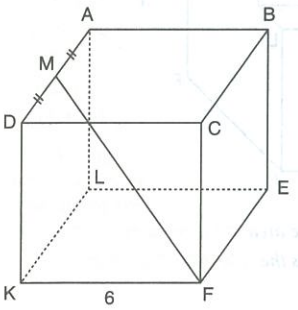
A cube with an edge of 3 units

$|EF| = 3$ br

$\Rightarrow A(AKE) = ?$

A) $\frac{9\sqrt{3}}{4}$ B) $\frac{9\sqrt{3}}{2}$ C) $9\sqrt{3}$ D) $18\sqrt{3}$ E) 54

11.



Bir ayrıtı 6 br olan küp

A cube with an edge of 6 units

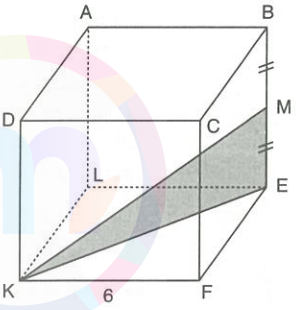
$|KF| = 6$ br

$|DM| = |MA|$

$\Rightarrow |MF| = ?$

A) 9 B) $4\sqrt{5}$ C) $2\sqrt{17}$ D) 7 E) $4\sqrt{3}$

12.



Bir ayrıtı 6 br olan küp

A cube with an edge of 6 units

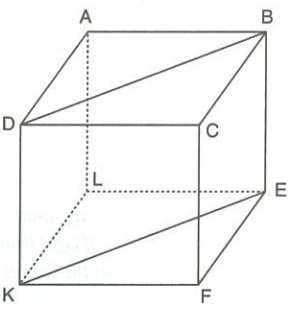
$|KF| = 6$ br

$|BM| = |ME|$

$\Rightarrow A(MEK) = ?$

A) $9\sqrt{2}$ B) 9 C) $4\sqrt{5}$ D) $2\sqrt{17}$ E) $4\sqrt{3}$

13.



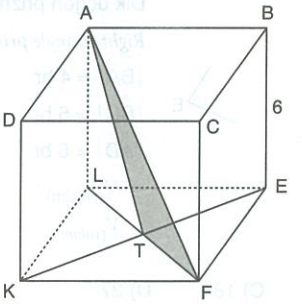
$A(DBEK) = 25\sqrt{2}$ br^2

Şekildeki küpün alanı kaç br^2'dir?

How many unit^2 is the area of the cube in figure?

A) 150 B) 125 C) 120 D) 100 E) 80

14.



Bir ayrıtı 6 br olan küp

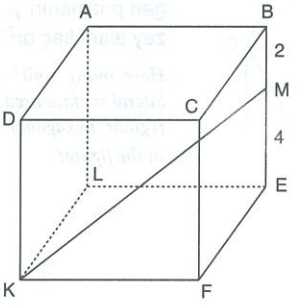
A cube with an edge of 6 units

$|BE| = 6$ br

$\Rightarrow A(ATF) = ?$

A) $18\sqrt{2}$ B) 18 C) $9\sqrt{2}$ D) 9 E) $6\sqrt{2}$

15.



Bir ayrıtı 6 br olan küp

A cube with an edge of 6 units

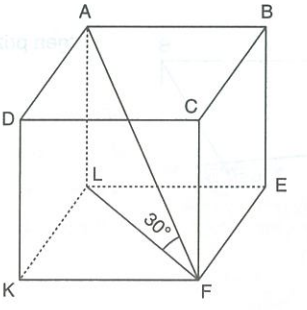
$|BM| = 2$ br

$|ME| = 4$ br

$\Rightarrow |KM| = ?$

A) 10 B) $2\sqrt{22}$ C) $4\sqrt{5}$ D) 8 E) $5\sqrt{2}$

16.



Kare dik prizmanın cisim köşegeni 12 br

The solid diagonal of square right prism is 12 units

$m(\widehat{AFL}) = 30°$

$|AF| = 12$ br

Kare dik prizmanın hacmi kaç br^3'tür?

How many unit^3 is the volume of square right prism?

A) 566 B) 484 C) 324 D) 300 E) 256

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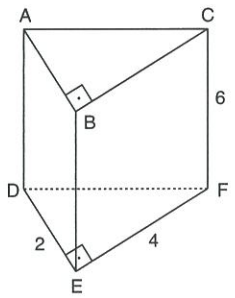
1.



|CF| = 6 br

|EF| = 4 br

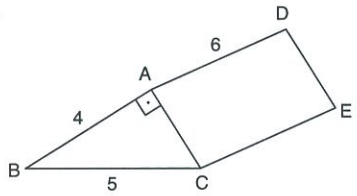
|DE| = 2 br

Şekildeki dik üçgen prizmanın hacmi kaç br^3'tür?

How many unit^3 is the volume of right triangular prism in the figure?

A) 96 B) 64 C) 48 D) 24 E) 12

2.



Dik üçgen prizma

Right triangle prism

|BA| = 4 br

|BC| = 5 br

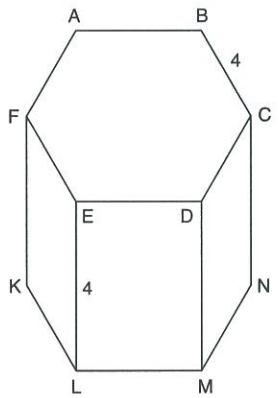
|AD| = 6 br

⇒ $V_{(Hacim)}$ = ?

$V_{(volume)}$ = ?

A) 13 B) 15 C) 18 D) 27 E) 36

3.



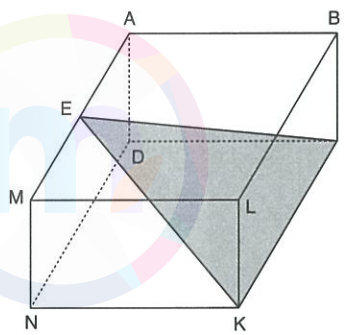
|EL| = |BC| = 4 br

Şekildeki düzgün altıgen prizmanın yan yüzey alanı kaç br^2'dir?

How many unit^2 is the lateral surface area of the regular hexagonal prism in the figure?

A) 128 B) 118 C) 100 D) 96 E) 78

4.



Dikdörtgen prizma

Rectangular prism

|BC| = 2 br

|KC| = 6 br

|NK| = 4 br

⇒ A(EKC) = ?

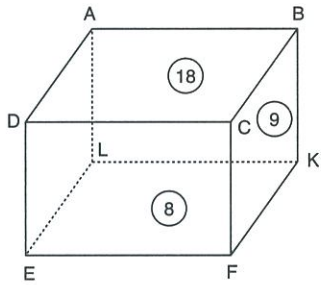
A) $6\sqrt{5}$ B) $2\sqrt{19}$ C) 8 D) $5\sqrt{2}$ E) 36

5. Taban alanı 30 br^2, taban çevresi 25 br ve yanal alanı 100 br^2 olan dik prizmanın hacmi kaç br^3'tür?

How many unit^3 is the volume of a right prism with a bottom area of 30 unit^2, a bottom circumference of 25 unit and a lateral area of 100 unit^2?

A) 100 B) 108 C) 120 D) 122 E) 144

6.



A(ABCD) = 18 br^2

A(BKFC) = 9 br^2

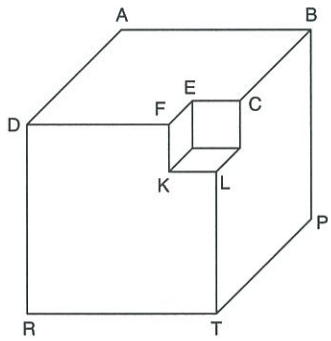
A(DCFE) = 8 br^2

Dikdörtgen prizmanın hacmi kaç br^3'tür?

How many unit^3 is the volume of right rectangular prism?

A) 36 B) 49 C) 60 D) 72 E) 98

7.

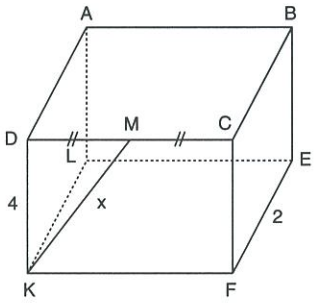


Şekildeki tahtadan oluşan küpün bir köşesinden şekildeki gibi küçük bir küp çıkartılıyor. Geri kalan cismin alanı 150 br^2'dir. Buna göre bu prizmanın hacmi kaç br^3'tür?

A small wooden cube form is cut off at a corner of a cube as indicated in the picture. The area of the remaining solid is 150 unit^2. Thus, how many unit^3 is the volume of this prism?

A) 150 B) 125 C) 120 D) 100 E) 80

8.



Dikdörtgen prizmanın hacmi 48 br^3

The volume of a rectangular prism is 48 unit^3

|EF| = 2 br

|DK| = 4 br

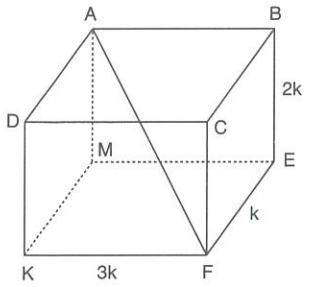
|DM| = |MC|

⇒ |KM| = x = ?

A) $4\sqrt{5}$ B) $4\sqrt{2}$ C) 5 D) 4 E) 3

PUZA YAYINLARI

9.



$|BE| = 2k$

$|FE| = k$

$|KF| = 3k$

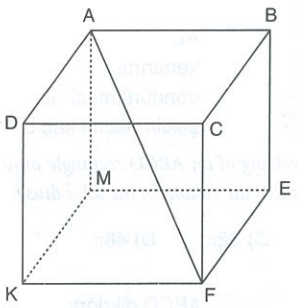
$|AFI = 3\sqrt{14}$ br

Dikdörtgen prizmasının hacmi kaç br^3'tür?

How many $unit^3$ is the volume of right rectangular prism?

A) 162 B) 196 C) 198 D) 200 E) 208

10.



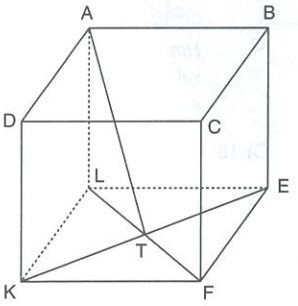
Alanı hacmine eşit olan küpün cisim köşegeni uzunluğu kaç br'dir?

How many unit is the length of a solid diagonal of a cube of which area equals to its volume?

$\Rightarrow |AF| = x = ?$

A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $5\sqrt{3}$ D) $6\sqrt{3}$ E) $8\sqrt{3}$

11.



Bir ayrıtının uzunluğu 6 br olan küp verilmiştir.

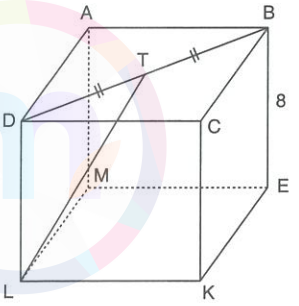
A cube with an edge of 6 units is given

$|BE| = 6$ br

$\Rightarrow |AT| = ?$

A) 3 B) $3\sqrt{2}$ C) $3\sqrt{5}$ D) $3\sqrt{6}$ E) $6\sqrt{5}$

12.



Bir ayrıtının uzunluğu 8 br olan küp verilmiştir.

A cube with an edge of 8 units is given

$|BE| = 8$ br

$|DT| = |TB|$

$\Rightarrow |LT| = ?$

A) $8\sqrt{5}$ B) 10 C) $4\sqrt{6}$ D) 9 E) $6\sqrt{2}$

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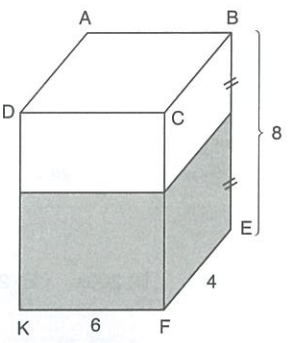
13.

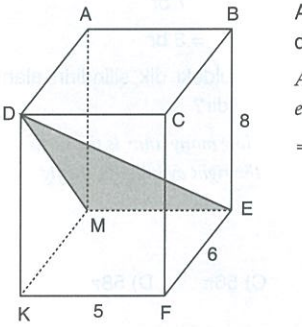


Ayrıtları 4, 6, 8 br olan dikdörtgenler prizmasının yarısı su ile doludur. Bu prizma büyük yüzey üzerine yatırılırsa suyun yüksekliği kaç br olur?

A half of a rectangular prism with the edge lengths of 4, 6, 8 units is filled with water. In case it is laid over the larger surface, how many units of the height of the water level shall be?

A) 1 B) 2 C) 3 D) 4 D) 5

14.



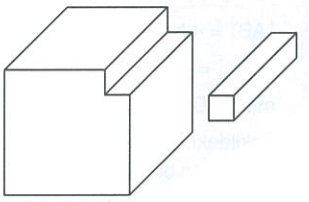
Ayrıtları 8, 6, 5 br olan dikdörtgen prizma

A rectangular prism with the edge lengths of 8, 6, 5 units

$\Rightarrow$ A(DME) = ?

A) 100 B) 80 C) 50 D) 30 E) 25

15.

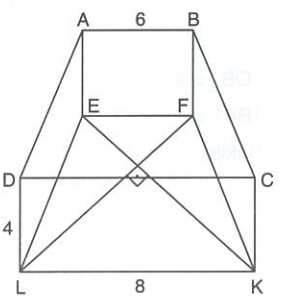


Yandaki şekilde alanı 600 br^2 olan bir küp şekildeki gibi bir köşesinden dik bir kare prizma çıkartıldığında alanı 592 br^2 oluyor. Buna göre çıkartılan dik kare prizmanın hacmi kaç br^3'tür?

At the picture adjoining, when a right square prism is cut off from any vertex, a cube's area of 600$unit^2$ becomes 592 $unit^2$. Thus, how many $unit^3$ is the volume of this right square prism that is cut off?

A) 5 B) 10 C) 15 D) 20 E) 40

16.



[LF] $\perp$ [EK]

$|AB| = 6$ br

$|LK| = 8$ br

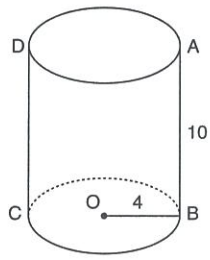
$|DL| = 4$ br

Şekildeki ikizkenar yamuk dik prizmanın hacmi kaç br^3'tür?

How many $unit^3$ is the volume of a square right prism with a isosceles trapezoidal bottom?

A) 196 B) 168 C) 144 D) 96 E) 84

1.



|AB| = 10 br

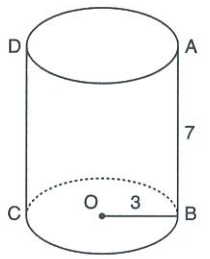
|OB| = 4 br

Şekildeki dik silindirin hacmi kaç br³'tür?

How many unit³ is the volume of right cylinder in the figure?

A) 150π B) 160π C) 180π D) 200π E) 240π

2.



|AB| = 7 br

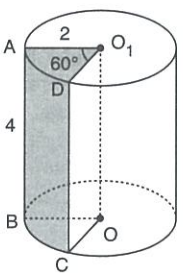
|OB| = 3 br

Şekildeki dik silindirin alanı kaç br²'dir?

How many unit² is the surface area of the right cylinder in the figure?

A) 36π B) 48π C) 56π D) 58π E) 60π

3.



|AB| = 4 br

$|AO_1| = 2$ br

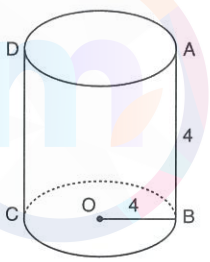
$m(\widehat{AO_1D}) = 60°$

Şekildeki taralı silindir diliminin hacmi kaç br³'tür? (π = 3)

How many unit³ is the volume of a slice of a cylinder as traced in figure? (π = 3)

A) 8 B) 12 C) 16 D) 20 E) 24

4.



|OB| = 4 br

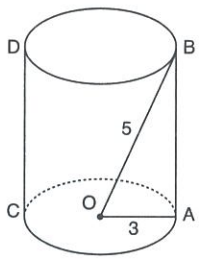
|BA| = 4 br

Şekildeki dik silindirin yanal alanı kaç br²'dir?

How many unit² is the lateral surface area of the right cylinder in the figure?

A) 64π B) 32π C) 16π D) 8π E) 4π

5.



|OB| = 5 br

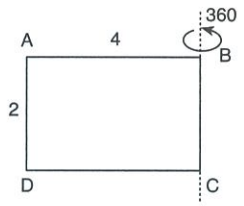
|OA| = 3 br

Şekildeki dik silindirin hacmi kaç br³'tür?

How many unit³ is the volume of right cylinder in the figure?

A) 64π B) 48π C) 45π D) 36π E) 27π

6.



|AD| = 2 br

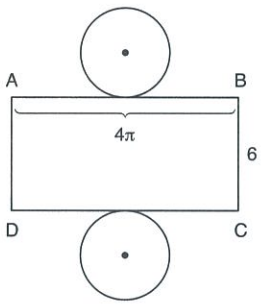
|AB| = 4 br

ABCD dikdörtgenini [BC] kenarının etrafında 360° döndürülmesi ile oluşan şeklin hacmi kaç br³'tür?

As a result of a 360° revolving of an ABCD rectangle around its [BC] edge, how many unit³ is the volume of the solid thus formed?

A) 16π B) 24π C) 32π D) 48π E) 64π

7.



ABCD dikdörtgen

ABCD rectangle

|AB| = 4π

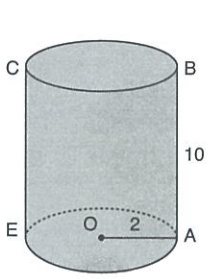
|BC| = 6 br

Şeklin birleştirilmesi ile oluşan silindirin hacmi kaç br³'tür?

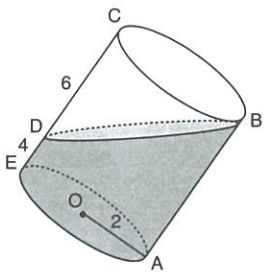
How many unit³ is the volume of the cylinder formed as aggregating the figure?

A) 6π B) 12π C) 18π D) 24π E) 30π

8.



Şekil I / *Figure I*



Şekil II / *Figure II*

|AB| = 10 br , |OA| = 2 br , |DE| = 4 br , |DC| = 6 br

Şekilde içi su ile dolu bir dik silindir Şekil I'deki konumdan Şekil II'deki konuma getirildiğinde suyun bir kısmı dökülüyor. Buna göre Şekil II'deki suyun hacmi kaç br³'tür?

When a right cylinder filled with water inside as in figure is put the position indicated in Figure I to the position indicated in Figure II some amount of water is dropped. According to this how many unit³ of the volume of the water in Figure II?

A) 40π B) 36π C) 32π D) 30π E) 28π

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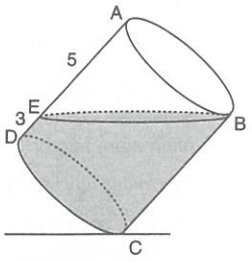
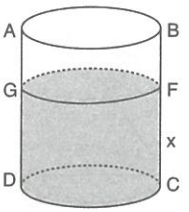
9.



Şekil I / Figure I



Şekil II / Figure II

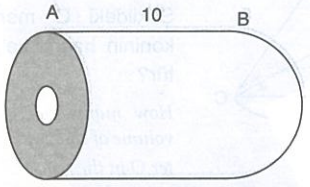
Silindir I. durumdan II. duruma getiriliyor.

Cylinder turns from I. situation to II. situation.

$|AE| = 5$ br , $|ED| = 3$ br $\Rightarrow |FC| = x = ?$

A) 3 B) 4 C) 4,5 D) 5 E) 5,5

10.



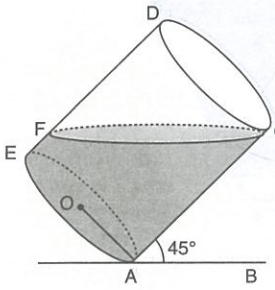
$|AB| = 10$ br

Yarıçapı 4 br ve 6 br olan iki borunun arasına su doldurulmak isteniyor. Bunun için kaç br^3 suya ihtiyaç vardır?

It is required to fill water between two pipes having a radius of 4 units and 6 units, how many $unit^3$ of water is required for that?

A) 200π B) 166π C) 160π D) 96π E) 20π

11.



$|EF| = 2$ br

$|OA| = 4$ br

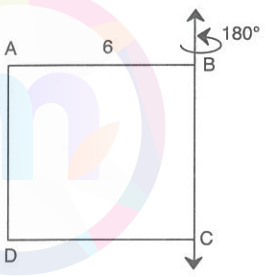
$m(\widehat{CAB}) = 45°$

Silindirin içindeki suyun hacmi kaç br^3'tür?

How many $unit^3$ is the volume of water in figure?

A) 12π B) 24π C) 48π D) 96π E) 100π

12.



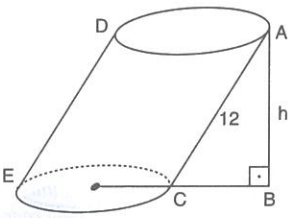
$|AB| = 6$ br

ABCD karesi [BC] doğrusu etrafında 180° döndürülmesi ile oluşan şeklin hacmi kaç br^3'tür?

How many $unit^3$ is the volume of the solid formed by revolving 180° of an ABCD square around [BC] line?

A) 216π B) 240π C) 120π D) 60π E) 30π

13.



$[AB] \perp [CB]$

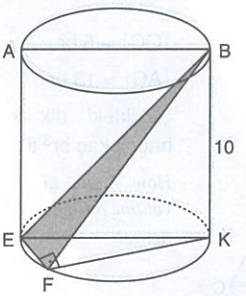
Taban alanı 30 br^2, dik kesit alanı 20 br^2 ve eğik silindirin yanal ayrıtı 12 br'dir.

The bottom area is 30 $unit^2$, the right cross sectional area is 20 $unit^2$ and, the lateral edge of an oblique cylinder is 12 unit.

$\Rightarrow |AB| = ?$

A) 12 B) 10 C) 9 D) 8 E) 6

14.



$[EF] \perp [FK]$

$[AB] // [EK]$

$|EF| = 6$ br

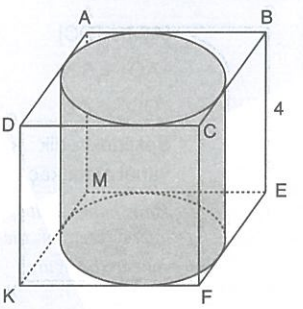
$|FK| = 8$ br

$|BK| = 10$ br

$\Rightarrow A(EFB) = ?$

A) $6\sqrt{41}$ B) $30\sqrt{2}$ C) 30 D) $3\sqrt{41}$ E) 24

15.



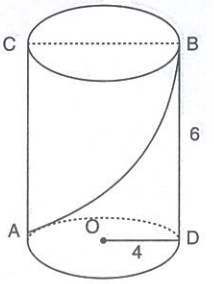
$|BE| = 4$ br

Şekildeki küpün içine yerleştirilecek en büyük hacimli silindirin yüzey alanı kaç br^2'dir?

How many $unit^2$ is the area of a cylinder with maximum volume, placed in a cube in figure?

A) 60π B) 48π C) 42π D) 40π E) 24π

16.



$|OA| = 4$ br

$|AB| = 6$ br

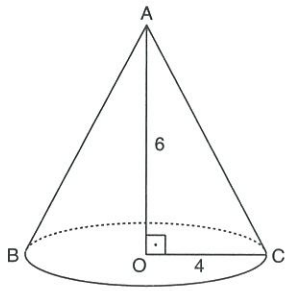
A noktasından B noktasına gitmek isteyen bir karıncanın alacağı en kısa mesafe kaç br'dir? ($\pi = 3$)

How many units is the shortest distance for an ant that wants to go from point A to point B? ($\pi = 3$)

A) $12\sqrt{5}$ B) 12 C) $6\sqrt{5}$ C) $4\sqrt{3}$ D) 6

PUZA YAYINLARI
PUZA YAYINLARI
PUZA YAYINLARI

1.



[AO] ⊥ [OC]

|AO| = 6 br

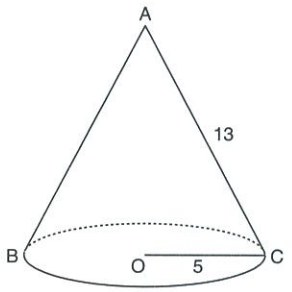
|OC| = 4 br

Şekildeki dik koninin hacmi kaç br^3'tür?

How many unit^3 is the volume of right cone in the figure?

A) 24π B) 32π C) 48π D) 64π E) 96π

2.



|OC| = 5 br

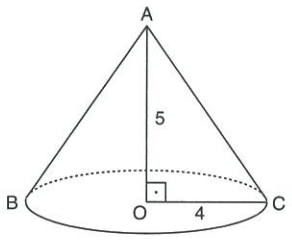
|AC| = 13 br

Şekildeki dik koninin hacmi kaç br^3'tür?

How many unit^3 is the volume of right cone in the figure?

A) 100π B) 150π C) 200π D) 300π E) 325π

3.



[AO] ⊥ [OC]

|AO| = 5 br

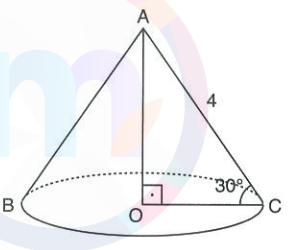
|OC| = 4 br

Şekildeki dik koninin yanal alanı kaç br^2'dir?

How many unit ^{2} is the lateral area of the right cone in the figure?

A) 12π B) 16π C) 20π D) $4\sqrt{41}\pi$ E) 30π

4.



[AO] ⊥ [OC]

|AC| = 4 br

m(ACO) = 30°

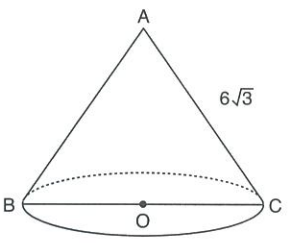
Şekildeki dik koninin hacmi kaç br^3'tür?

How many unit^3 is the volume of right cone in the figure?

A) 2π B) 4π C) 8π D) 10π E) 12π

PUZA YAYINLARI

5.



ABC eşkenar üçgen

ABC equilateral triangle

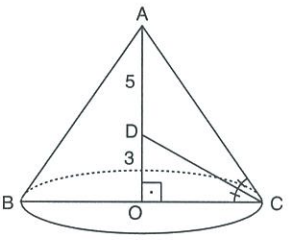
|AC| = $6\sqrt{3}$

Şekildeki O merkezli koninin alanı kaç br^2 dir?

How many unit^2 is the area of cone with a center O in the figure?

A) 27π B) $27\pi + 3\sqrt{3}\pi$ C) 81π D) 100π E) 144π

6.



m(ACD) = m(DCB)

|AD| = 5 br

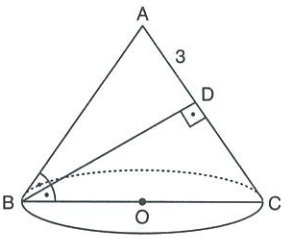
|DO| = 3 br

Şekildeki O merkezli koninin hacmi kaç br^3 tür?

How many unit^3 is the volume of cone with a center O in the figure?

A) 12π B) 48π C) 71π D) 96π E) 100π

7.



m(ABD) = m(DBC)

[BD] ⊥ [AC]

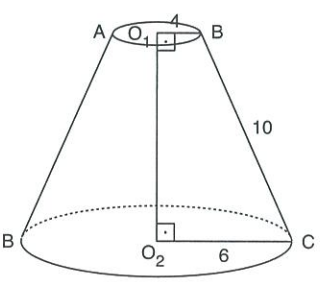
|AD| = 3 br

Şekildeki O merkezli koninin hacmi kaç br^3'tür?

How many unit^3 is the volume of right cone in the figure?

A) 9π B) $9\sqrt{3}\pi$ C) 27π D) 81π E) 90π

8.



O_1 ve O_2 merkezli çemberler

Circles with O_1 and O_2 center points

|O_1B| = 4 br

|O_2 C| = 6 br

|BC| = 10 br

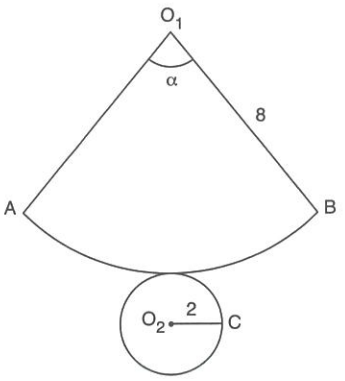
Şekildeki kesik koninin yanal alanı kaç br^2'dir?

How many unit^2 is the lateral area of a truncated cone in the figure?

A) 5π B) 10π C) 25π D) 50π E) 100π

PUZA YAYINLARI

9.



Şekildeki açık koni

Open cone in figure

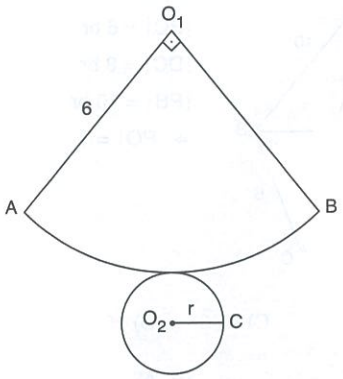
$|O_1B| = 8$ br

$|O_2C| = 2$ br

$\Rightarrow m(\widehat{AO_1B}) = \alpha = ?$

A) 30 B) 45 C) 60 D) 75 E) 90

10.



Şekildeki açık koni

Open cone in figure

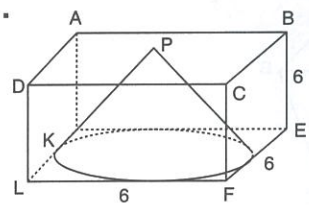
$m(\widehat{AO_1B}) = 90°$

$|O_1A| = 6$ br

$\Rightarrow |O_2C| = r = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

11.



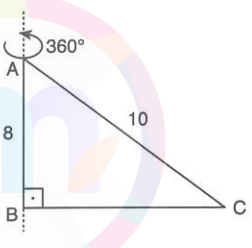
$|LF| = |FE| = |BE| = 6$ br

Küpün içine yerleştirilmiş en büyük hacimli koninin tüm alanı kaç br^2 dir?

How many unit^2 is the area of a cone with maximum volume, placed in a cube in figure?

A) 9π B) 18π C) $9\pi + 9\sqrt{3}\pi$ D) $27\pi + 9\sqrt{3}\pi$ E) 36π

12.



[AB] ⊥ [BC]

$|AB| = 8$ br

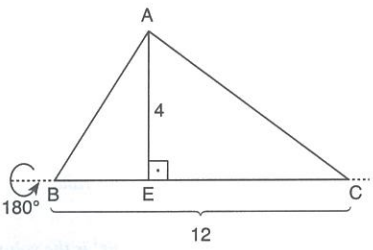
$|AC| = 10$ br

Şekildeki dik üçgenin [AB] kenarı etrafında 360° döndürülmesi ile oluşan şeklin yüzey alanı kaç br^2'dir?

As a result of a 360° revolving of a right-angled triangle around its [AB] edge, how many unit^2 is the surface area of the figure thus formed?

A) 48π B) 96π C) 128π D) 288π E) 384π

13.



[AE] ⊥ [BC]

$|AE| = 4$ br

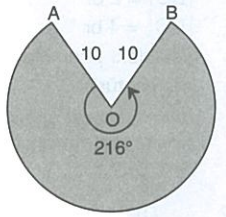
$|BC| = 12$ br

Şekildeki ABC üçgeninin [BC] kenarı etrafında 180° döndürülmesi ile oluşan şeklin hacmi kaç br^3'tür?

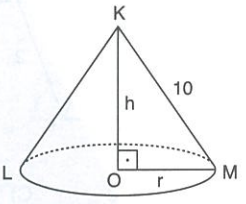
As a result of an 180° revolving of the ABC triangle adjoining around the [BC] edge, how many unit^3 is the volume of the solid formed?

A) 32π B) 48π C) 64π D) 72π E) 96π

14.



Şekil I / Figure I



Şekil II / Figure II

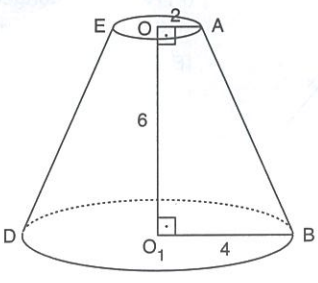
$|AO| = |OD| = |KM| = 10$ br

Şekil I'deki daire yanal alan olacak şekilde kıvrılarak Şekil II'deki koni oluşturuluyor. Buna göre Şekil II'deki koninin hacmi kaç br^3'tür?

A slice of a circle in Figure I is curled so as to form a lateral and thus a cone as in Figure II is formed. Accordingly how many unit^3 is the volume of the cone in Figure II?

A) 10π B) 90π C) 92π D) 96π E) 108π

15.



[AO] ⊥ [OO$_1$]

[OO$_1$] ⊥ [O$_1$B]

$|OA| = 2$ br

$|OO_1| = 6$ br

$|O_1B| = 4$ br

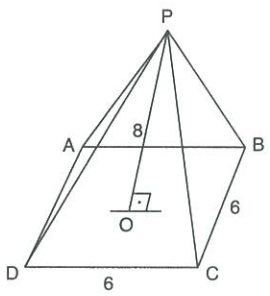
Şekildeki kesik koninin hacmi kaç br^3 tür?

How many unit^3 is the volume of truncated cone in the figure?

A) 8π B) 24π C) 32π D) 48π E) 56π

PUZA YAYINLARI

1.



(P, ABCD) kare dik piramit

(P, ABCD) square right pyramid

$|BC| = |DC| = 6$ br

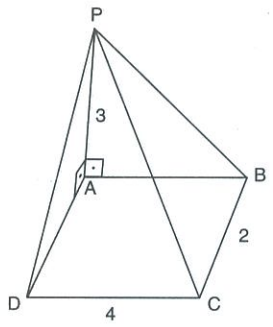
$|PO| = 8$ br

Şekildeki piramitin hacmi kaç br^3 tür?

How many unit^3 is the volume of the pyramid in the figure?

A) 148 B) 96 C) 72 D) 56 E) 48

2.



ABCD dikdörtgen

ABCD rectangle

$[PA] \perp |AD]$

$[PA] \perp [AB]$

$|PA| = 3$ br

$|BC| = 2$ br

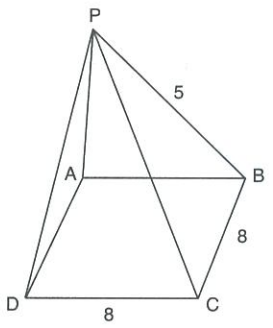
$|DC| = 4$ br

Şekildeki piramitin hacmi kaç br^3 tür?

How many unit^3 is the volume of the pyramid in the figure?

A) 6 B) 8 C) 12 D) 24 E) 36

3.



(P, ABCD) kare dik piramit

(P, ABCD) square right pyramid

$|BC| = |DC| = 8$ br

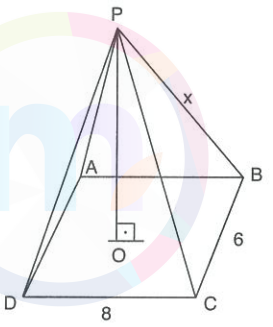
$|PB| = 5$ br

Şekildeki piramitin yanal yüzey alanı kaç br^2 dir?

How many unit^2 in the lateral surface area of pyramid in the figure?

A) 24 B) 32 C) 36 D) 42 E) 48

4.



(P, ABCD) dikdörtgen piramit *(regtangle pyramid)*

$|BC| = 6$ br

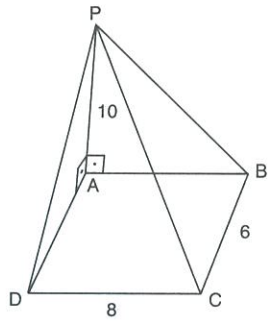
$|DC| = 8$ br

$|PO| = 12$ br

$\Rightarrow |PB| = x = ?$

A) 5 B) 6 C) 8 D) 10 E) 13

5.



$[PA] \perp [AB]$

$[PA] \perp [AD]$

ABCD dikdörtgen

ABCD rectangle

$|PA| = 10$ br

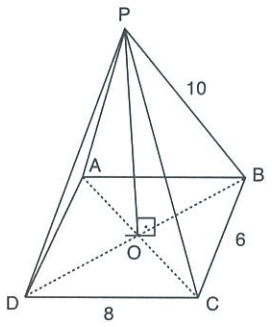
$|BC| = 6$ br

$|DC| = 8$ br

$\Rightarrow |PC| = ?$

A) 6 B) 8 C) 10 D) $8\sqrt{2}$ E) $10\sqrt{2}$

6.



(P, ABCD) dikdörtgen piramit *(regtangle pyramid)*

$|BC| = 6$ br

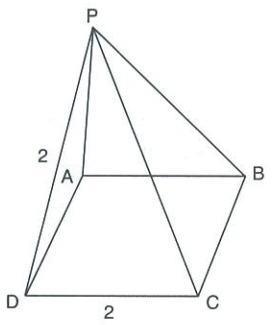
$|DC| = 8$ br

$|PB| = 10$ br

$\Rightarrow |PO| = ?$

A) 6 B) 8 C) $5\sqrt{3}$ D) $10\sqrt{2}$ E) 13

7.



(P, ABCD) kare piramit

(square right pyramid)

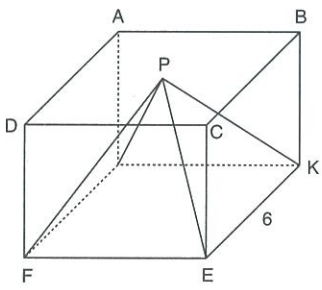
$|DC| = |PD| = 2$ br

Şekildeki kare dik piramit yüzey alanı kaç br^2 dir?

How many unit^2 is the surface area of the square right pyramid in figure?

A) 8 B) 16 C) $4 + 2\sqrt{3}$ D) $4 + 4\sqrt{3}$ E) $4 - \sqrt{3}$

8.



Küpün içerisine yerleştirilmiş en büyük hacimli piramitin hacmi kaç br^3 tür?

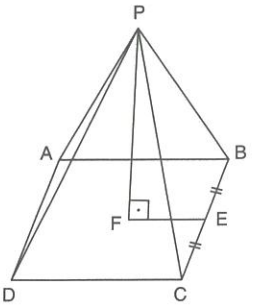
$|EK| = 6$ br

How many unit^3 is the volume of a pyramid with maximum volume, placed in a cube?

A) 36 B) 54 C) 72 D) 108 E) 124

PUZA YAYINLARI

9.



|EB| = |EC|

[PF] ⊥ [FE]

|PB| = 6 br

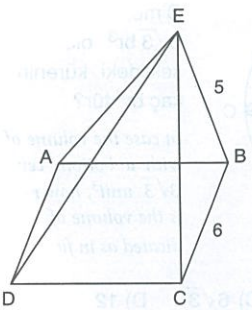
|BC| = 4 br

Şekildeki kare dik piramitin hacmi kaç br^3'tür?

How many unit^3 is the volume of square right pyramid in the figure?

A) 64 B) 32 C) $24\sqrt{7}$ D) 28 E) $16\sqrt{7}$

10.



|EB| = 5 br

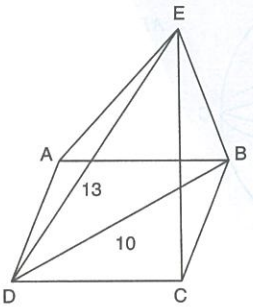
|BC| = 6 br

Şekildeki kare dik piramitin yüzey alanı kaç br^2'dir?

How many unit^2 is the surface area of square right pyramid in the figure?

A) 48 B) 60 C) 84 D) 90 E) 96

11.



|DE| = 13 br

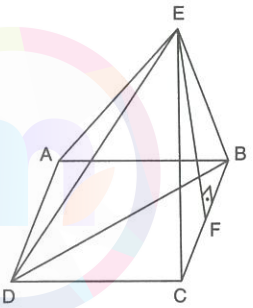
|DB| = 10 br

Şekildeki kare dik piramitin hacmi kaç br^3'tür?

How many unit^3 is the volume of square right pyramid in the figure?

A) 650 B) 600 C) 480 D) 400 E) 200

12.



[EF] ⊥ [BC]

|EF| = 13 br

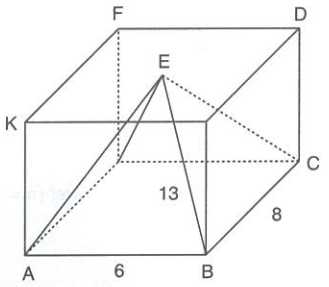
Ç(ABCD) = 40 br

Şekildeki kare dik piramidin hacmi kaç br^3'tür?

How many unit^3 is the volume of square right pyramid in the figure?

A) 1300 B) 1200 C) $\frac{1300}{3}$ D) 360 E) 260

13.



|AB| = 6 br

|BC| = 8 br

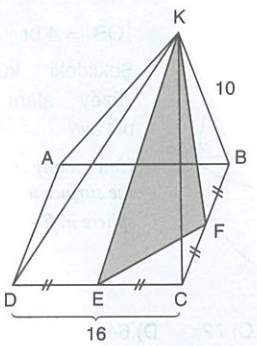
|EB| = 13 br

Dikdörtgen prizmanın içine yerleştirilen piramidin hacmi kaç br^3'tür?

How many unit^3 is the volume of a pyramid placed in a rectangular prism?

A) 192 B) 128 C) 92 D) 84 E) 64

14.



ABCD kare

ABCD square

|KB| = 10 br

|DC| = 16 br

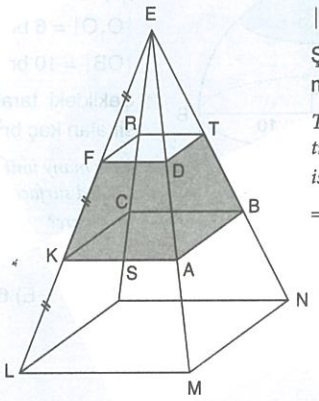
|BF| = |FC|

|DE| = |EC|

⇒ A(KEF) = ?

A) $32\sqrt{2}$ B) $20\sqrt{2}$ C) $16\sqrt{2}$ D) $8\sqrt{2}$ E) $6\sqrt{2}$

15.



|EF| = |FK| = |KL|

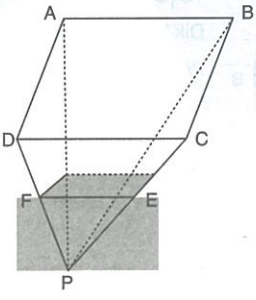
Şekilde taralı kesik piramidin hacmi 35 br^3'tür.

The volume of the shaded truncated pyramid in figure is 35 unit^3.

⇒ V(KABC, LMTS) = ?

A) 105 B) 95 C) 90 D) 80 E) 75

16.



Şekildeki yarıya kadar su dolu dik piramidin dolması için 49 br^3 daha suya ihtiyaç vardır. Buna göre piramidin hacmi kaç br^3'tür?

In order to fill the right pyramid completely that is half-full as shown in figure requires 49 unit^3 of water more. Thus, how many unit^3 is the volume of this pyramid?

A) 98 B) 70 C) 63 D) 56 E) 52

PUZA YAYINLARI
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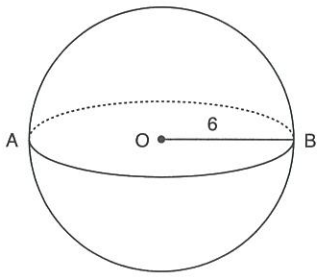
1.



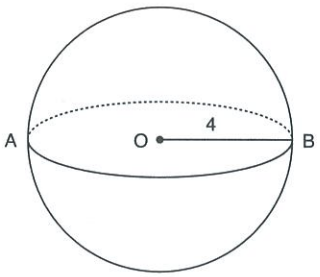
|OB| = 6 br

Şekildeki kürenin hacmi kaç br^3'tür? ($\pi = 3$)

How many unit^3 is the volume of sphere in the figure? ($\pi = 3$)

A) 1152 B) 952 C) 864 D) 642 E) 384

2.



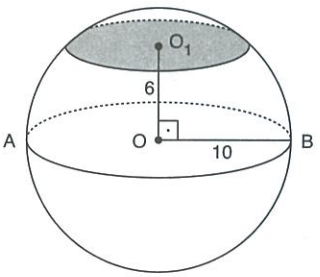
|OB| = 4 br

Şekildeki kürenin yüzey alanı kaç br^2'dir?

How many unit^2 is the surface area of the sphere in figure?

A) 128π B) 96π C) 72π D) 64π E) 56π

3.



[O_1O] ⊥ [OB]

$|O_1O| = 6$ br

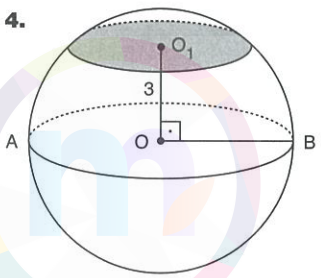
|OB| = 10 br

Şekildeki taralı kesit alan kaç br^2'dir?

How many unit^2 is the shaded surface area in the figure?

A) 16π B) 25π C) 36π D) 49π E) 64π

4.



[O_1O] ⊥ [OB]

$|O_1O| = 3$ br

Dik kesit alanı 9π dir.

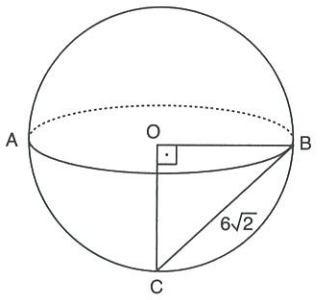
Right cross sectional area is 9π.

Şekildeki kürenin hacmi kaç br^3'tür?

How many unit^3 is the volume of sphere in figure?

A) $72\sqrt{2}\,\pi$ B) $64\sqrt{2}\,\pi$ C) $56\sqrt{2}\,\pi$ D) $48\sqrt{2}\,\pi$ E) $36\sqrt{2}$

5.



[BO] ⊥ [OC]

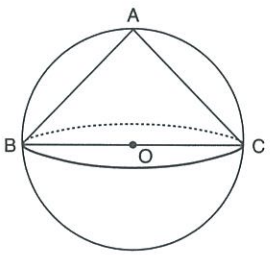
$|BC| = 6\sqrt{2}$ br

O merkezli kürenin alanı kaç br^2 dir?

How many unit^2 is the surface area of a sphere with a center O?

A) 36π B) 48π C) 64π D) 72π E) 144π

6.



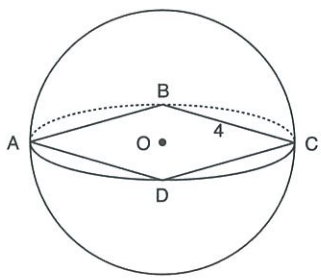
|AC| = |BC|

O merkezli koninin hacmi $3\sqrt{3}$ br^3 olduğuna göre şekildeki kürenin hacmi kaç br^3 tür?

In case the volume of a cone with a bottom center O is $3\sqrt{3}$ unit^3, how many unit^3 is the volume of a sphere indicated as in figure?

A) $4\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 12 E) $12\sqrt{3}$

7.



ABCD kare

ABCD square

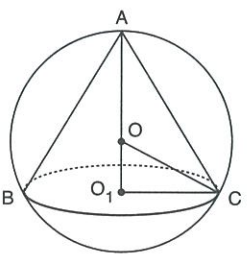
|BC| = 4 br

Şekildeki kürenin yüzey alanı kaç br^2'dir?

How many unit^2 is the surface area of the sphere in figure?

A) 24π B) 26π C) 28π D) 30π E) 32π

8.



O merkezli küre ile O_1 merkezli çember şekildeki gibidir.

A sphere with a center O and a circle with a center O_1 are as in the figure.

$|O_1C| = 3$ br

$|AO_1| = 9$ br

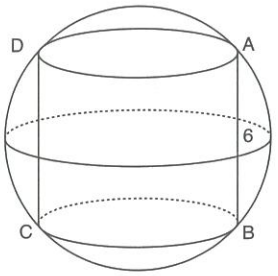
Buna göre, O merkezli kürenin hacmi kaç br^3 tür?

Accordingly how many unit^3 is the volume of the sphere with a center O?

A) $\frac{250\pi}{3}$ B) 150π C) $\frac{500\pi}{3}$ D) 250π E) 1500π

PUZA YAYINLARI

9.



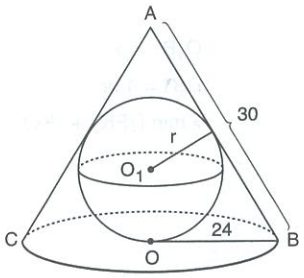
|AB| = 6 br

Alanı 100π olan kürenin içine yerleştirilmiş silindirin alanı kaç br^2'dir?

How many unit ^{2} is the surface area of a cylinder placed in a sphere having a surface area of 100π?

A) 32π B) 48π C) 60π D) 72π E) 80π

10.



O_1 merkezli küre

A sphere with a center of O_1

O merkezli silindir

A cylinder with a center of O

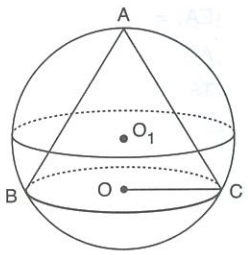
|AB| = 30 br

|OB| = 24 br

$\Rightarrow$ r = ?

A) 14 B) $\frac{72}{7}$ C) 10 D) 8 E) 6

11.



ABC eşkenar üçgen

ABC is an equilateral triangle

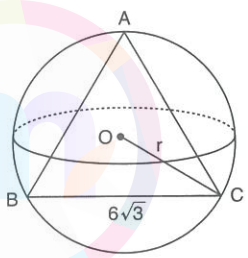
Ç(ABC) = 18 br

$\Rightarrow \frac{\text{Kürenin hacmi}}{\text{Koninin hacmi}} = ?$

$\frac{\textit{Volume of the sphere}}{\textit{Volume of the cone}} = ?$

A) $\frac{24}{9}$ B) $\frac{28}{9}$ C) $\frac{29}{9}$ D) $\frac{10}{3}$ E) $\frac{32}{9}$

12.



O merkezli kürenin içine yerleştirilmiş eşkenar üçgen şekildeki gibidir.

An equilateral triangle placed in a sphere with a center O is as in figure.

$|BC| = 6\sqrt{3}$ br

$\Rightarrow |OC| = r = ?$

A) 3 B) $3\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) 12

13. Bir ayrıtının uzunluğu 6 br olan düzgün dörtyüzlünün hacmi kaç br^3'tür?

How many unit^3 is the volume of a regular tetrahedron having an edge of 6 units?

A) 18 B) $18\sqrt{2}$ C) 27 D) $18\sqrt{3}$ E) $24\sqrt{2}$

14. Tüm alanı $36\sqrt{3}$ br^2 olan düzgün dörtyüzlünün yüksekliği kaç br'dir?

How many unit is the height of a regular tetrahedron having a total surface area of $36\sqrt{3}$ unit^2?

A) $2\sqrt{6}$ B) 6 C) $3\sqrt{6}$ D) $6\sqrt{2}$ E) 12

15. Bir ayrıtı 3 br olan düzgün sekizyüzlünün hacmi kaç br^3'tür?

How many unit^3 is the volume of a regular tetrahedron having an edge of 3 units?

A) $6\sqrt{2}$ B) $9\sqrt{2}$ C) $9\sqrt{3}$ D) 18 E) $18\sqrt{2}$

16. Tüm alanı $8\sqrt{3}$ br^2 olan düzgün sekizyüzlünün bir ayrıtının uzunluğu kaç br'dir?

How many unit is the lengtht of the edge regular octahedron having a total surface area of $8\sqrt{3}$ unit^2?

A) 2 B) $2\sqrt{2}$ C) 3 D) $2\sqrt{3}$ E) 4

PUZA YAYINLARI
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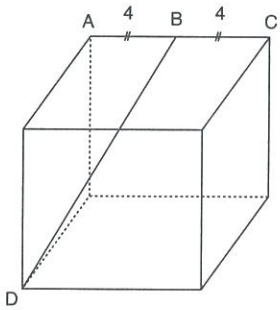
PUZA YAYINLARI

1.



Bir ayrıtı 8 br olan küp şekildeki gibi verilmiştir.

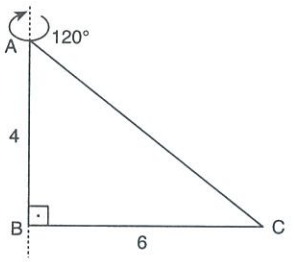
A cube with an edge of 8 units is as in figure

$|AB| = |BC| = 4$ br

$\Rightarrow |DB| = x = ?$

A) 13 B) 12 C) $7\sqrt{2}$ D) 10 E) $2\sqrt{13}$

2.



$[AB] \perp [BC]$

$|AB| = 4$ br

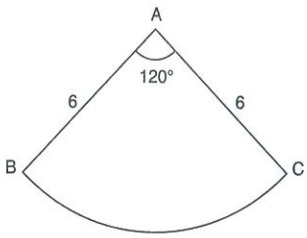
$|BC| = 6$ br

Şekildeki dik üçgenin [AB] doğru parçası etrafında 120° döndürülmesi ile oluşan şeklin hacmi kaç br^3'tür?

As a result of a 120° revolving of the right triangle adjoining around the [AB] line segment, how many unit³ is the volume of the solid formed?

A) 32π B) 16π C) $\frac{32\pi}{3}$ D) 8π E) $\frac{8\pi}{3}$

3.



$|AB| = |BC| = 6$ br

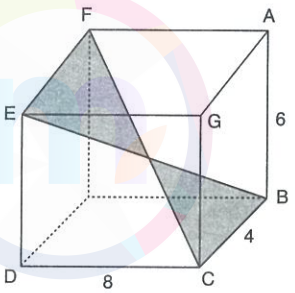
$m(\widehat{BAC}) = 120°$

Şekildeki daire dilimi kıvrılarak bir dik koni oluşturuluyor. Oluşturulan bu koninin hacmi kaç br^3'tür? ($\pi = 3$)

A slice of circle in figure is curled and formed a right cone. How many unit³ is the volume of this cone formed? ($\pi = 3$)

A) $16\sqrt{3}$ B) $16\sqrt{2}$ C) 16 D) $8\sqrt{3}$ E) $8\sqrt{2}$

4.



Dikdörtgen prizma

Rectangular prism

$|AB| = 6$ br

$|BC| = 4$ br

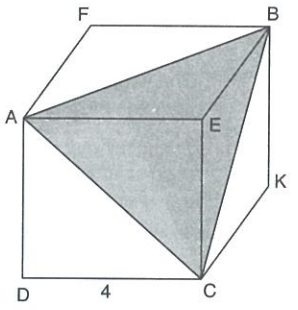
$|DC| = 8$ br

Şekildeki taralı bölgenin alanı kaç br^2'dir?

How many unit² is the surface area of the shaded sector in figure?

A) 40 B) 32 C) 30 D) 20 E) 15

5.



Bir ayrıtı 4 br olan küp

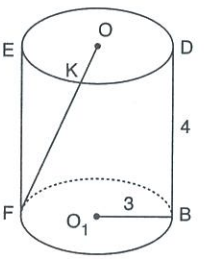
A cube with an edge of 4 unit

$|DC| = 4$ br

$\Rightarrow V(E, ABC) = ?$

A) 64 B) 32 C) 16 D) 12 E) 8

6.



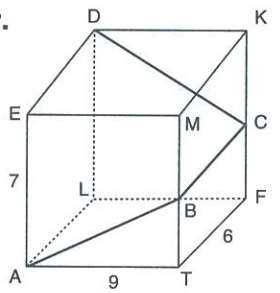
$|O_1B| = 3$ br

$|DB| = 4$ br

$\Rightarrow \min\{|FK| + |KO|\} = ?$

A) 7 B) 9 C) $4 + 6\pi$ D) $4 + 12\pi$ E) 16π

7.



$|EA| = 7$ br

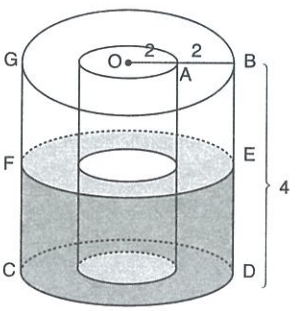
$|AT| = 9$ br

$|TF| = 6$ br

$\Rightarrow \min(|AB| + |BC| + |CD|) = ?$

A) 25 B) 23 C) 22 D) 18 E) 17

8.



$|OA| = |AB| = 2$ br

$|BD| = 4$ br

İki silindirin arasındaki yüksekliği 4 br olan suyun hacmi kaç br^3'tür?

How many unit³ is the volume of the water having a height of 4 units between two cylinders?

A) 48π B) 32π C) 30π D) 16π E) 8π

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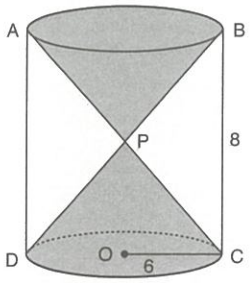
PUZA YAYINLARI

9.



|BC| = 8 br

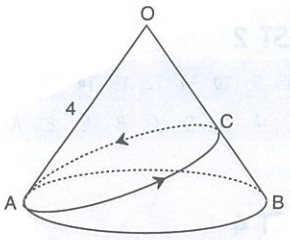
|OC| = 6 br

Silindirin içinde P noktasını tepe noktası kabul eden konilerin hacimleri toplamı kaç br^3'tür?

How many unit^3 is the total of the volumes of cones that assume P point as their peak/top points in cylinder?

A) 108π B) 96π C) 72π D) 64π E) 50π

10.



|OA| = |OB| = 4 br

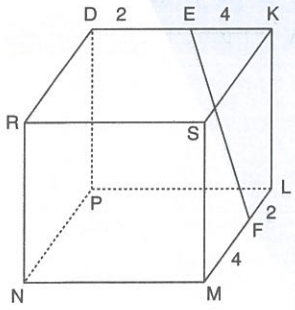
Dik koninin taban çevresi 2π,

A'dan başlayıp koninin etrafını dolaşarak A'da biten en kısa ipin uzunluğu kaç br'dir?

The bottom perimeter of a right cone is 2π units, how many unit is the length of the shortest thread starts from A, and then goes around the cone and finishes at A?

A) 2 B) $2\sqrt{2}$ C) 4 D) $4\sqrt{2}$ E) 8

11.



Bir ayrıtının uzunluğu 6 br olan küp

A cube with an edge of 6 units is given

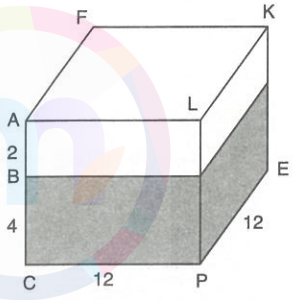
|DE| = |FL| = 2 br

|EK| = |FM| = 4 br

$\Rightarrow$ |EF| = ?

A) $2\sqrt{13}$ B) $2\sqrt{14}$ C) $2\sqrt{15}$ D) $2\sqrt{17}$ E) $2\sqrt{19}$

12.



2|AB| = |BC| = 4 br

|CP| = |PE| = 12 br

Şekildeki kare prizma EKLP yüzeyi üzerine oturtulduğunda suyun yüksekliği kaç br olur?

When a square prism as in figure is situated at an EKLP surface plane, how many unit will be the height of water?

A) 4 B) 6 C) 8 D) 9 E) 10

13. Bir kürenin yarıçapı % 20 artırılırsa hacmi yüzde kaç artar?

In case the radius of a sphere is increased 20%, how many per cent of its volume will increase?

A) 20 B) 40 C) 44 D) 56,2 E) 72,8

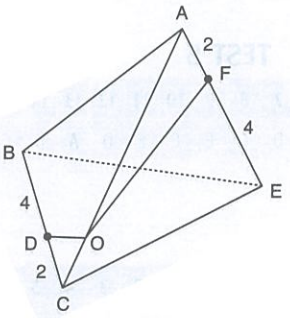
14. Ayrıtları a, b, c olan dikdörtgenler prizmasının hacmi 48 br^3, alanı 88 br^2

The volume of a rectangular prism with the dimensions/edges a, b, c is 48 unit^3 and its surface is 88 unit^2

$\Rightarrow \frac{1}{a}+\frac{1}{b}+\frac{1}{c}=?$

A) $\frac{11}{12}$ B) $\frac{3}{4}$ C) $\frac{7}{12}$ D) $\frac{4}{7}$ E) $\frac{1}{2}$

15.



Düzgün dörtyüzlü

Regular tetrahedron

|AF| = |DC| = 2 br

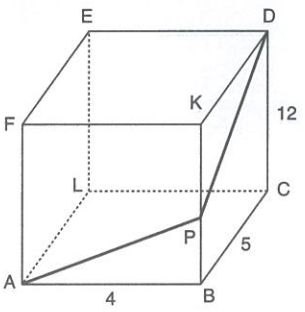
|FE| = |BD| = 4 br

O $\in$ |AC|

$\Rightarrow$ min(|DO|+|OF|) = ?

A) 12 B) 6 C) $2\sqrt{7}$ D) 5 E) 4

16.



Dikdörtgen prizma

Rectangle prism

|AB| = 4 br

|BC| = 5 br

|DC| = 12 br

$\Rightarrow$ min{|AP|+|PD|}=?

A) 15 B) 13 C) 12 D) 10 E) 8

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PUZA YAYINLARI

PUZA YAYINLARI

KATI CİSİM SOLID OBJECT

Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	E	E	E	A	B	E	D	C	B	A	A	A	C	B	C

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	E	D	A	C	A	B	C	A	D	D	C	B	E	E	A

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	E	A	B	D	C	D	E	E	A	D	D	D	A	E	C

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
B	A	D	C	C	D	B	E	E	B	B	B	C	D	E	

TEST 5

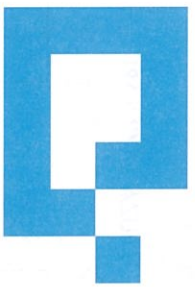
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	B	E	E	E	C	D	C	E	C	E	D	A	D	C	D

TEST 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	D	E	A	E	E	E	A	E	D	E	C	B	A	B	A

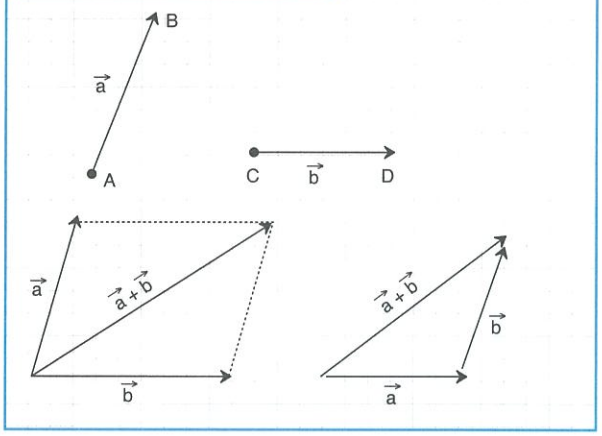
TEST 7

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	B	B	D	B	A	A	A	B	D	B	C	E	A	C	B

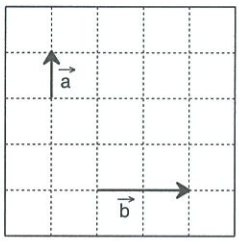


VEKTÖRLER
VECTORS

ÖZELLİK|Property 1

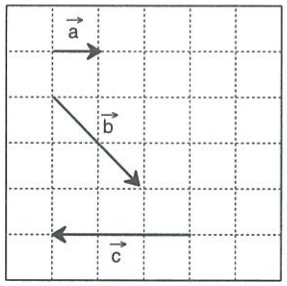


1.



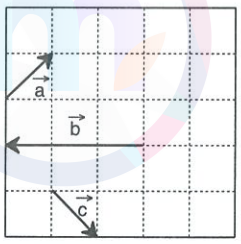
$\Rightarrow \vec{a}+\vec{b}=?$

2.



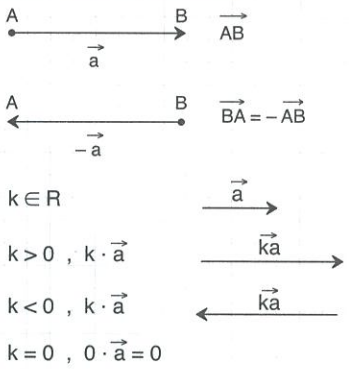
$\Rightarrow \vec{a}+\vec{b}+\vec{c}=?$

3.

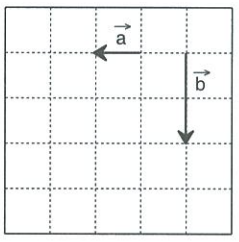


$\Rightarrow \vec{a}+\vec{b}+\vec{c}=?$

ÖZELLİK|Property 2

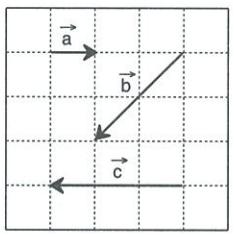


1.



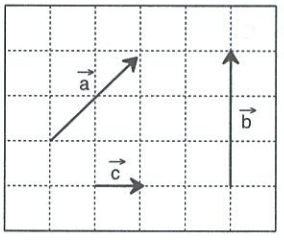
$\Rightarrow 2\vec{a}-\vec{b}=?$

2.



$\Rightarrow 3\vec{a}+\frac{\vec{b}}{2}-\frac{\vec{c}}{3}=?$

3.



$\Rightarrow \frac{\vec{a}}{2}-\frac{\vec{b}}{3}+\vec{c}=?$

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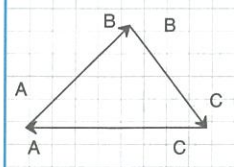
ÖZELLİK|Property 3



$\overrightarrow{AB} + \overrightarrow{BC} + \overrightarrow{CA} = \overrightarrow{AA} = 0$

$\overrightarrow{AB} + \overrightarrow{BC} + \overrightarrow{CD} = \overrightarrow{AC} + \overrightarrow{CD} = \overrightarrow{AD}$

$\overrightarrow{AB} + \overrightarrow{BA} = \overrightarrow{AA} = 0$

1. $\overrightarrow{GA} + \overrightarrow{AD} + \overrightarrow{DC} = ?$

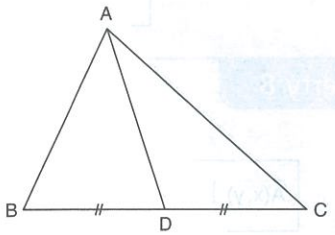
$\overrightarrow{AB} - \overrightarrow{CB} = ?$

$\overrightarrow{AB} - \overrightarrow{AD} = ?$

$\overrightarrow{BE} + \overrightarrow{EB} = ?$

$\overrightarrow{AB} + \overrightarrow{BC} - \overrightarrow{DC} = ?$

2.

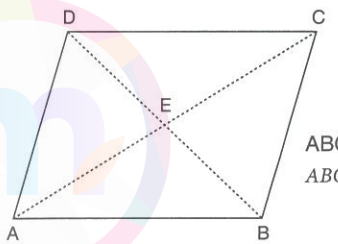


$\overrightarrow{AB} + \overrightarrow{BD} = ?$ $\quad\quad$ $\overrightarrow{AB} - \overrightarrow{AC} = ?$

$\overrightarrow{BA} + \overrightarrow{AC} = ?$ $\quad\quad$ $\overrightarrow{AB} + \overrightarrow{AC} = ?$

$\overrightarrow{DC} + \overrightarrow{DA} = ?$ $\quad\quad$ $\overrightarrow{BC} + \overrightarrow{AB} = ?$

3.



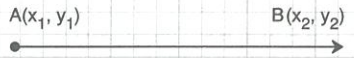
ABCD paralelkenar

ABCD parallelogram

$\overrightarrow{AB} - \overrightarrow{AD} = ?$ $\quad\quad$ $\overrightarrow{AE} + \overrightarrow{DE} = ?$

$\overrightarrow{BA} - \overrightarrow{BC} = ?$ $\quad\quad$ $\overrightarrow{BD} + \overrightarrow{AC} = ?$

ÖZELLİK|Property 4



$\overrightarrow{AB} = \overrightarrow{B} - \overrightarrow{A} = (x_2 - x_1, y_2 - y_1)$

1. A(4, 2) $\quad$ B(3, –1) $\quad$ $\Rightarrow \overrightarrow{AB} = ?$

A(3, – 2) $\quad$ B(4, 1) $\quad$ $\Rightarrow \overrightarrow{AB} = ?$

(–1, – 3), (1, 3)

2. $\overrightarrow{AB}$ (4, – 2) $\quad$ A(3, –1) $\quad$ $\Rightarrow$ B(x, y) = ?

$\overrightarrow{AB}$ (– 4, – 6) $\quad$ A(2, – 2) $\quad$ $\Rightarrow$ B(x, y) = ?

(7, – 3), (– 2, – 8)

3. $\overrightarrow{AB}$ (– 6, 3) $\quad$ B(2, – 3) $\quad$ $\Rightarrow$ A(x, y) = ?

$\overrightarrow{AB}$ (– 4, 3) $\quad$ B(1, 4) $\quad$ $\Rightarrow$ A(x, y) = ?

(8, – 6), (5, 1)

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ÖZELLİK|Property 5

$\vec{A}(x_1, y_1)$
$\vec{B}(x_2, y_2)$

$\vec{A} = \vec{B} \Leftrightarrow x_1 = x_2$ ve $y_1 = y_2$

1. $\vec{A}(3, x)$ $\vec{B}(2x, -5y)$ $\vec{A} = \vec{B}$ $\Rightarrow y = ?$

$-\frac{3}{10}$

2. A(1, – 2) B(– 2, 3) C(4, 1) D(x, y)

$\overrightarrow{AB} = \overrightarrow{CD}$ $\Rightarrow x + y = ?$

7

3. A(– 5, 1) B(3, 4) $\vec{C}$(x, y) $\overrightarrow{AB} = \vec{C}$

$\Rightarrow$ (x , y) = ?

(8, 3)

ÖZELLİK|Property 6

$\vec{A}(x_1, y_1)$
$\vec{B}(x_2, y_2)$

$\vec{A} + \vec{B} = (x_1 + x_2, y_1 + y_2)$
$\vec{A} - \vec{B} = (x_1 - x_2, y_1 - y_2)$

1. $\vec{A}(8, 4)$ $\vec{B}(2, -7)$ $\Rightarrow \vec{A} + \vec{B} = ?$
$\Rightarrow \vec{A} - \vec{B} = ?$

(10, –3), (6, 11)

2. A(1, 2) B(3, – 2) C(4, 1) D(– 2, 1)

$\Rightarrow \overrightarrow{AC} + \overrightarrow{BD} = ?$
$\Rightarrow \overrightarrow{AC} - \overrightarrow{BD} = ?$

(–2, 2), (8, –4)

3. $\overrightarrow{AB}$ (3, –1) B(3, – 2) C(5, 1)

$\Rightarrow \overrightarrow{AC} + \overrightarrow{BC} = ?$
$\Rightarrow \overrightarrow{AC} - \overrightarrow{BC} = ?$

(7, 5), (3, –1)

ÖZELLİK|Property 7

$\vec{A}(x, y)$

* $k(x, y) = (kx, ky)$
* $-k(x, y) = (-kx, -ky)$
* $k = 0$ $\quad k \cdot (x, y) = 0(x, y) = (0, 0)$

1. $\vec{A}(-1, 2)$ $\vec{B}(-3, -2)$ $\Rightarrow 2\vec{A} + 3\vec{B} = ?$

(–11, –2)

2. A(3, 2) B(–1, 5) $\vec{C}$(– 2, 1)

$\Rightarrow 2\overrightarrow{AB} + \vec{C} = ?$

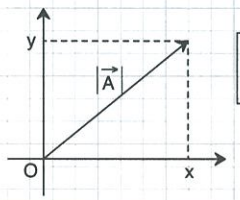
(–10, 7)

3. A(–1, 3) B(– 3, 4) C(x, y) $2(\overrightarrow{AC}) = 3(\overrightarrow{AB})$

$\Rightarrow$ C(x, y) = ?

(– 4, 9/2)

ÖZELLİK|Property 8



$\vec{A}(x, y) \Rightarrow |\vec{A}| = ||\vec{A}|| = \sqrt{x^2 + y^2}$

1. $\vec{A}(3, -4)$ $\Rightarrow ||\vec{A}|| = ?$

5

2. $||\vec{A}|| = 10$ $\vec{A}(x, -6)$

$\Rightarrow \sum x = ?$

0

3. A(– 4, – 5) B(– 9, –10)

$\Rightarrow ||\overrightarrow{AB}|| = ?$

$5\sqrt{2}$

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ÖZELLİK|Property 9

$\overrightarrow{A(x,y)} \Rightarrow \left|\left|\vec{A}\right|\right| = \sqrt{x^2+y^2}$

$\vec{A}$ Vektörünün aynı yönlü birim vektörü
unit vector with the same direction of $\vec{A}$

$$I_A = \frac{\vec{A}}{\left|\left|\vec{A}\right|\right|}$$

$\vec{A}$ vektörünün zıt yönlü birim vektörü
unit vector with the opposite direction of $\vec{A}$

$$-I_A = \frac{-\vec{A}}{\left|\left|\vec{A}\right|\right|}$$

1. $\vec{A}$ (–2, 4) vektörüyle aynı yönlü birim vektörü nedir?
What is unit vector with the same direction to vector $\vec{A}$ *(–2, 4)?*

$\left(\frac{-1}{\sqrt{5}}, \frac{2}{\sqrt{5}}\right)$

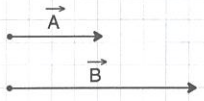
2. $\vec{A}$ (–3, 4) vektörüyle zıt yönlü birim vektörü nedir?
What is unit vector with the opposite direction to vector $\vec{A}$ *(–3, 4)?*

$\left(\frac{3}{5}, -\frac{4}{5}\right)$

3. A(3, –2), B(3, 1) $\overrightarrow{AB}$ vektörüyle aynı yönlü birim vektörü nedir?
What is unit vector with the same direction to vector $\overrightarrow{AB}$ *?*

(0, 1)

ÖZELLİK|Property 10



$\left.\begin{matrix}\vec{A}(x_1,y_1)\\ \vec{B}(x_2,y_2)\end{matrix}\right\} \vec{A} \parallel \vec{B} \Rightarrow \frac{y_1}{x_1} = \frac{y_2}{x_2}$

1. $\vec{A}(3,4)$ $\vec{B}(-6,x)$ $\vec{A} \parallel \vec{B}$ $\Rightarrow x = ?$

– 8

2. A(1, – 3) B(2, 6) C(3, – x) $\overrightarrow{AB} \parallel \overrightarrow{AC}$
$\Rightarrow x = ?$

– 15

3. $\vec{A}(x-1, 3)$ $\vec{B}(5, x+1)$ $\vec{A} \parallel \vec{B}$
$\Rightarrow \sum x = ?$

0

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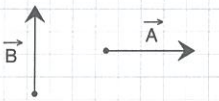
ÖZELLİK|Property 11



$\left.\begin{matrix}\vec{A}(x_1,y_1)\\ \vec{B}(x_2,y_2)\end{matrix}\right\} A \perp B \Rightarrow \frac{y_1}{x_1}\cdot\frac{y_2}{x_2} = -1$

1. $\vec{A}(3,-2)$ $\vec{B}(2,x)$ $\vec{A} \perp \vec{B}$ $\Rightarrow x = ?$

3

2. A(3, 1) B(2, x) $\vec{C}(-5, 7)$ $\overrightarrow{AB} \perp \vec{C}$
$\Rightarrow x = ?$

$\frac{2}{7}$

3. $\overrightarrow{AB}(-1,3)$ A(3, 1) C(x, 2) $\overrightarrow{BC} \perp \overrightarrow{AC}$
$\Rightarrow \sum x = ?$

5

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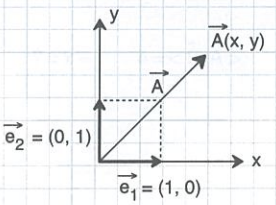
ÖZELLİK|Property 12



$\vec{A} = x\vec{e_1} + y\vec{e_2}$

$\vec{A} = x(1,0) + y(0,1)$

$\vec{A} = (x,0) + (0,y)$

$\vec{A} = (x,y)$

1. $\vec{A}(1,-2)$ $\Rightarrow \vec{A} = x\vec{e_1} + y\vec{e_2} = ?$

$\vec{e_1} - 2\vec{e_2}$

2. $\vec{A} = 2\vec{e_1} - 4\vec{e_2}$ $\Rightarrow \vec{A} = ?$

(2, – 4)

3. $\vec{A}(4,-2)$ $\vec{B}(-5,3)$
$\vec{C}(8,1)$ $k\vec{A} + m\vec{B} = \vec{C}$ $\Rightarrow k + m = ?$

$\frac{49}{2}$

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ÖZELLİK|Property 13

$\vec{A}(x_1, y_1)$ $\vec{B}(x_2, y_2)$

$$\vec{A}\cdot\vec{B} = <\vec{A},\vec{B}> = x_1\cdot x_2 + y_1\cdot y_2$$

1. $\vec{A}(3,1)$ $\vec{B}(-2,4)$ $\Rightarrow \vec{A}\cdot\vec{B} = ?$

–2

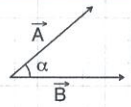
2. $\vec{A}(4,5)$ $\vec{B}(x,-4)$ $<\vec{A},\vec{B}> = 4$ $\Rightarrow x = ?$

6

3. A(x, 2) B(4, 2) $\vec{C}(-1, 1)$ $<\overrightarrow{AB},\vec{C}> = 4$ $\Rightarrow x = ?$

8

ÖZELLİK|Property 14



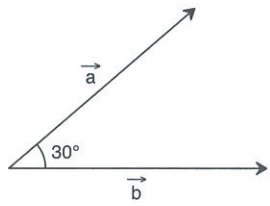
$$\vec{A}\cdot\vec{B} = <\vec{A},\vec{B}> = |\vec{A}|\cdot|\vec{B}|\cdot\cos\alpha$$

* $\vec{A}\perp\vec{B}$ $\cos 90° = 0$ $\Rightarrow <\vec{A},\vec{B}> = 0$

* $\vec{A}$ ⟵ $\vec{B}$ $\cos 180° = -1$ $\Rightarrow <\vec{A},\vec{B}> = -|\vec{A}|\cdot|\vec{B}|$

* $\vec{A}$ ⟶ $\vec{B}$ $\cos 0° = 1$ $\Rightarrow <\vec{A},\vec{B}> = |\vec{A}|\cdot|\vec{B}|$

1.



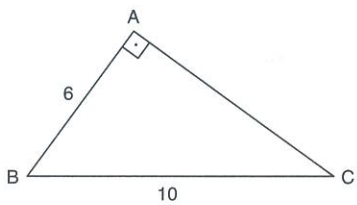
$||\vec{a}|| = 4$ br

$||\vec{b}|| = 6$ br

$\Rightarrow \vec{a}\cdot\vec{b} = ?$

$12\sqrt{3}$

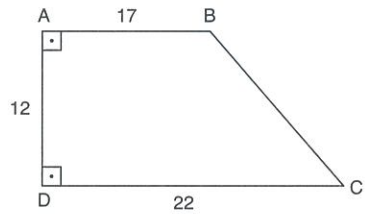
2.



$\Rightarrow <\overrightarrow{AB},\overrightarrow{AC}> = ?$

0

3.



$\Rightarrow <\overrightarrow{DC},\overrightarrow{CB}> = ?$

–110

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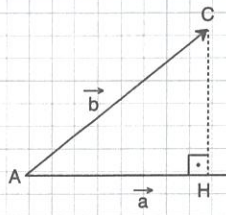
ÖZELLİK|Property 15



$$\overrightarrow{AH} = \frac{<\vec{a}, \vec{b}>}{|\vec{a}|^2} \cdot \vec{a}$$

$$|\overrightarrow{AH}| = \frac{<\vec{a}, \vec{b}>}{|\vec{a}|}$$

1. $\vec{A}(-8, 6)$ vektörünün $\vec{B}(-7, 24)$ vektörü üzerindeki dik izdüşüm vektörü nedir?

What is the orthogonal projection vector over the $\vec{B}(-7, 24)$ vector of $\vec{A}(-8, 6)$ vector?

$\left(-\frac{56}{25}, \frac{192}{25}\right)$

2. $\vec{A}(4, -1)$ vektörünün $\vec{B}(3, 4)$ vektörü üzerindeki dik izdüşüm vektörünün uzunluğu nedir?

What is the orthogonal projection length over the $\vec{B}(3, 4)$ vector of $\vec{A}(4,-1)$ vector?

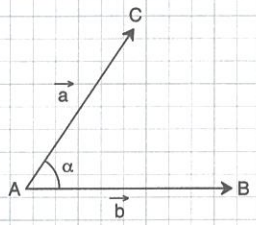
$\frac{8}{5}$

3. $\vec{A}(6, 1)$ vektörünün $y = 2x$ doğrusu üzerine dik izdüşüm vektörünün uzunluğu nedir?

What is the orthogonal projection length over the $y=2x$ line of $\vec{A}(6,1)$ vector?

$\frac{8\sqrt{5}}{5}$

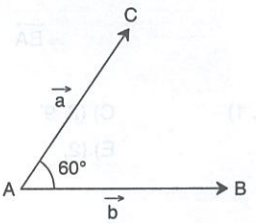
ÖZELLİK|Property 16



$$|\vec{a}+\vec{b}|^2 = |\vec{a}|^2 + |\vec{b}|^2 + 2|\vec{a}||\vec{b}| \cdot \cos\alpha$$

$$|\vec{a}-\vec{b}|^2 = |\vec{a}|^2 + |\vec{b}|^2 - 2|\vec{a}||\vec{b}| \cdot \cos\alpha$$

1.



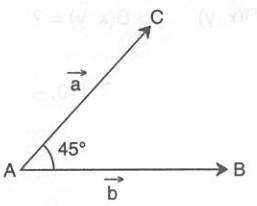
$|\vec{a}| = 5$ br

$|\vec{b}| = 3$ br

$\Rightarrow |\vec{a}+\vec{b}| = ?$

7

2.



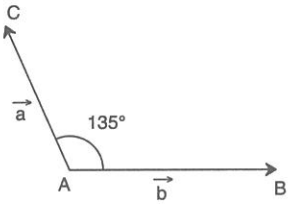
$|\vec{a}| = 4\sqrt{2}$ br

$|\vec{b}| = 6$ br

$\Rightarrow |\vec{a}-\vec{b}| = ?$

$2\sqrt{5}$

3.



$|\vec{a}| = 4$ br

$|\vec{b}| = 6\sqrt{2}$ br

$\Rightarrow |\vec{a}-\vec{b}| = ?$

$2\sqrt{34}$

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1. A(2, –1) B(4, – 3) $\Rightarrow \overrightarrow{AB} = ?$

A) (2, – 4) B) (2, – 2) C) (6, – 2)
D) (2, 2) E) (– 6, 2)

2. A(4, –5) B(– 2, – 4) $\Rightarrow \overrightarrow{BA} = ?$

A) (6, –1) B) (6, 1) C) (2, 9)
D) (– 6, 1) E) (2, 1)

3. $\overrightarrow{AB}$ (– 7, 5) A(3, 2) B(x, y) $\Rightarrow$ B(x, y) = ?

A) (–10, 3) B) (4, 3) C) (10, – 3)
D) (– 4, 7) E) (4, –7)

4. $\overrightarrow{BA}$ (– 4, 6) A(– 2, 3) B(x, y) $\Rightarrow$ B(x, y) = ?

A) (– 2, – 9) B) (3, – 2) C) (2, – 3)
D) (– 2, 9) E) (– 2, – 3)

5. $\vec{A}$ (4, – 3) $\vec{B}$ (– 6, 7) $\Rightarrow \vec{A} + \vec{B} = ?$

A) (– 2, 5) B) (2, 4) C) (10, 10)
D) (–10, –10) E) (– 2, 4)

6. $\vec{A}$ (–11, 5) $\vec{B}$ (x, 2y – 1) $\vec{A} - \vec{B} = (-8, 2)$
$\Rightarrow x + y = ?$

A) – 2 B) –1 C) 2 D) 3 E) 5

7. A(5, – 2) B(3, – 7) C(– 2, 3) $\Rightarrow \overrightarrow{AB} + \overrightarrow{AC} = ?$

A) (5, 10) B) (– 7, 5) C) (5, 6)
D) (0, – 9) E) (– 9, 0)

8. $\overrightarrow{AB}$ (3, – 2) A(–1, 3) C(1, – 2) $\Rightarrow \overrightarrow{AC} - \overrightarrow{BC} = ?$

A) (3, –1) B) (3, – 2) C) (1, – 2)
D) (1, – 8) E) (3, – 8)

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9. $\vec{A}(2,-1)$ $\vec{B}(7,-2)$ $\Rightarrow 2\vec{A}+3\vec{B}=?$

A) (13, – 2) B) (5, – 3) C) (– 6, 8)
D) (25, – 4) E) (25, – 8)

10. A(– 3, 7) B(2, 4) C(–1, 5) $\Rightarrow 3\overrightarrow{AB}-5\overrightarrow{BC}=?$

A) (0, –14) B) (– 30, 4) C) (30, – 4)
D) (30, –14) E) (0, – 4)

11. $\vec{A}(-2,1)$ $\Rightarrow |\vec{A}|=?$

A) $\sqrt{2}$ B) $\sqrt{5}$ C) 3 D) $2\sqrt{3}$ E) $2\sqrt{5}$

12. A(4, 1) B(1, – 3) $\Rightarrow |\overrightarrow{AB}|=?$

A) 3 B) 4 C) 5 D) $4\sqrt{2}$ E) $4\sqrt{3}$

13. A(–1, 3) B(5, –5) $\Rightarrow |\overrightarrow{AB}|=?$

A) $5\sqrt{2}$ B) 10 C) $10\sqrt{2}$ D) $10\sqrt{3}$ E) 15

14. $\vec{A}(x,y)$ $|\vec{A}|=1$

$\vec{A}$ vektörü aşağıdakilerden hangisi olabilir?

Which of the following can be vector of $\vec{A}$*?*

A) (2, 4) B) (–1, 1) C) (1, 1)
D) (0, –1) E) (3, 4)

15. $\vec{A}(4,-5)$ $\vec{B}(3,-3)$ $\Rightarrow |\vec{A}-\vec{B}|=?$

A) $\sqrt{3}$ B) $\sqrt{5}$ C) 3 D) 5 E) 12

16. $\vec{A}\left(x,\frac{4}{5}\right)$ $|\vec{A}|=1$ $\Rightarrow \sum x=?$

A) $-\frac{3}{5}$ B) 0 C) $\frac{3}{5}$ D) 1 E) $\frac{4}{5}$

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1. $\vec{A}(2x-1, 2y-6)$ $\vec{B}(7, 2x)$ $\vec{A} = \vec{B}$ $\Rightarrow x+y=?$

A) 3 B) 7 C) 9 D) 11 E) 13

2. A(7, 6) B(12, 1) $\vec{C}(x, y)$ $\overrightarrow{AB} = \vec{C}$ $\Rightarrow x+y=?$

A) –10 B) – 5 C) 0 D) 5 E) 10

3. A(0, 4) B(1, 2) C(4, x) D(y, 4) $\overrightarrow{AC} = \overrightarrow{DB}$ $\Rightarrow x \cdot y = ?$

A) –1 B) –2 C) – 3 D) – 4 E) – 6

4. A(2, 3) B(0, 4) C(x, y) $\overrightarrow{AB} = 3(\overrightarrow{BC})$ $\Rightarrow \frac{x}{y} = ?$

A) –1 B) $-\frac{2}{13}$ C) $\frac{1}{3}$ D) $\frac{3}{7}$ E) 1

5. $\vec{A}(-2, -6)$ $\vec{B}(3, x-1)$ $\vec{A} \,//\, \vec{B}$ $\Rightarrow x=?$

A) –10 B) – 8 C) 8 D) 10 E) 12

6. A(– 2, 1) B(– 6, 3) C(4, 1) D(8, y) $\overrightarrow{AB} \,//\, \overrightarrow{CD}$ $\Rightarrow y = ?$

A) – 2 B) –1 C) 0 D) 1 E) 2

7. $\vec{A}(-2, 4)$ $\vec{B}(x, -8)$ $\vec{A} \perp \vec{B}$ $\Rightarrow x=?$

A) –16 B) – 4 C) 1 D) 4 E) 16

8. A(3, –1) B(x, 3) C(7, 1) D(3, y) $\overrightarrow{AB} \perp \overrightarrow{CD}$ $x = ay + b$ $\Rightarrow a + b = ?$

A) – 2 B) 1 C) 2 D) 3 E) 5

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9. $\vec{A}=3\vec{e_1}-2\vec{e_2}$ $\Rightarrow A=?$

A) (3, 2) B) (– 3, 2) C) (0, 5)
D) (1, 0) E) (3, – 2)

10. $\vec{A}=(-2,5)$ $\vec{B}=4\vec{e_1}+2\vec{e_2}$ $\vec{C}=2\vec{A}+\vec{B}$

$\Rightarrow \vec{C}=?$

A) (2, 3) B) (2, 7) C) (0, 7)
D) (0, 8) E) (0, 12)

11. $2\vec{A}+3\vec{B}+\vec{C}=7\vec{e_1}-5\vec{e_2}$

$2\vec{A}+\vec{B}+3\vec{C}=5\vec{e_1}-3\vec{e_2}$ $\Rightarrow \vec{A}+\vec{B}+\vec{C}=?$

A) (3, – 2) B) (5, 2) C) (4, – 2)
D) (3, –1) E) (2, –1)

12. $\vec{K}(2,4)$ $\vec{U}(1,2)$ $\vec{V}(0,1)$ $\vec{K}=a\vec{U}+b\vec{V}$ $\Rightarrow a+b=?$

A) – 2 B) –1 C) 0 D) 1 E) 2

13. $\vec{A}(-1,3)$ $\vec{B}(1,2)$ $\vec{C}(-2,1)$ $\vec{C}=x\vec{A}+y\vec{B}$ $\Rightarrow x+y=?$

A) – 3 B) – 2 C) –1 D) 0 E) 1

14. $k>0$

$\vec{A}=\frac{3}{5}\vec{e_1}-k\vec{e_2}$ $|\vec{A}|=1$

$\vec{B}=5\vec{A}$ $\Rightarrow \vec{B}=?$

A) (– 3, – 2) B) (– 3, 4) C) (3, – 5)
D) (3, 4) E) (3, – 4)

15. $\vec{AB}(2,3)$ $\vec{BC}(4,-3)$ $\vec{DE}(6,-1)$ $\vec{EA}(0,4)$ $\Rightarrow \vec{DC}=?$

A) (7, –1) B) (12, 3) C) (6, 4)
D) (5, – 3) E) (8, – 3)

16. $\vec{AB}=-3\vec{e_1}+5\vec{e_2}$

$\vec{AC}=\vec{e_1}+2\vec{e_2}$ $\Rightarrow |\vec{BC}|=?$

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 10 E) 12

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1. $\vec{A}(-1,2)$ $\vec{B}(3,7)$ $\Rightarrow \vec{A}\cdot\vec{B}=?$

A) 11 B) 9 C) 7 D) 6 E) 4

2. $\vec{A}(x,-5)$ $\vec{B}(-2,3)$ $\vec{A}\cdot\vec{B}=-9$ $\Rightarrow x=?$

A) -3 B) -2 C) 1 D) 2 E) 3

3. $\vec{A}=(x-2)\vec{e_1}+(x+3)\vec{e_2}$

$\vec{B}=(x+2)\vec{e_1}+(3-x)\vec{e_2}$

$\Rightarrow \vec{A}\cdot\vec{B}=?$

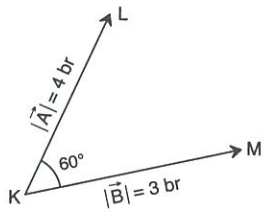
A) $2x^2$ B) $2x^2+5$ C) 5 D) 9 E) $2x+3$

4. $\overrightarrow{AB}(1,2)$ $\overrightarrow{BC}(-2,3)$ $\overrightarrow{DE}(-2,3)$ $\overrightarrow{EA}(3,1)$

$\Rightarrow \overrightarrow{AC}\cdot\overrightarrow{DA}=?$

A) 19 B) 15 C) 11 D) 8 E) 7

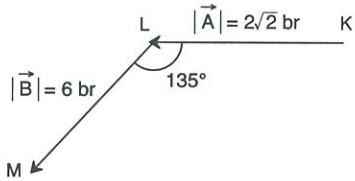
5.



$\Rightarrow \vec{A}\cdot\vec{B}=?$

A) 3 B) 6 C) $3\sqrt{3}$ D) $6\sqrt{3}$ E) 12

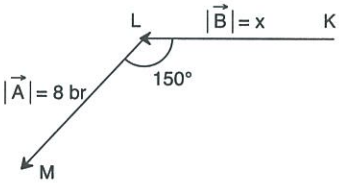
6.



$\Rightarrow \vec{A}\cdot\vec{B}=?$

A) 12 B) $6\sqrt{2}$ C) 6 D) $-6\sqrt{2}$ E) -12

7.

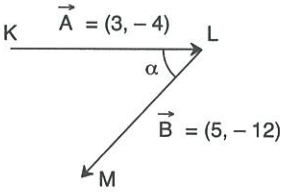


$\vec{A}\cdot\vec{B}=-20\sqrt{3}$ br

$\Rightarrow x=?$

A) -3 B) -4 C) -5 D) -6 E) -8

8.



$\Rightarrow \cos\alpha=?$

A) $\frac{-63}{65}$ B) $\frac{-5}{12}$ C) $\frac{33}{65}$ D) $\frac{63}{65}$ E) 1

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9. $|\vec{U}|=4$ br $\quad |\vec{V}|=6$ br $\quad \vec{U}\perp\vec{V}$

$\Rightarrow (\vec{U}+\vec{V})\cdot(\vec{U}+2\vec{V})=?$

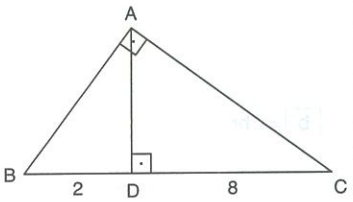
A) 160 B) 112 C) 88 D) 78 E) 56

10. $|\vec{A}|=2$ br $\quad |\vec{B}|=4$ br $\quad \vec{A}\perp\vec{B}$

$\Rightarrow (2\vec{A}-\vec{B})\cdot(\vec{A}+\vec{B})=?$

A) –16 B) – 8 C) 0 D) 4 E) 16

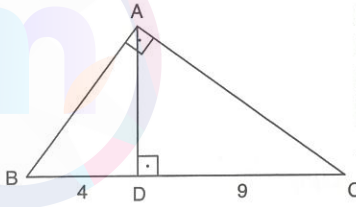
11.



$[AB]\perp[AC]$
$[AD]\perp[BC]$
$|BD|=2$ br
$|DC|=8$ br
$\Rightarrow \overrightarrow{BA}\cdot(\overrightarrow{BD}+\overrightarrow{AC})=?$

A) 2 B) 4 C) $2\sqrt{5}$ D) – 4 E) – 2

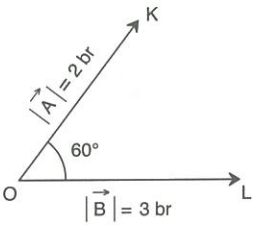
12.



$[AB]\perp[AC]$
$[AD]\perp[BC]$
$|BD|=4$ br
$|DC|=9$ br
$\Rightarrow \overrightarrow{BA}\cdot(\overrightarrow{AD}+\overrightarrow{DC})=?$

A) – 36 B) – 2 C) 0 D) 13 E) 36

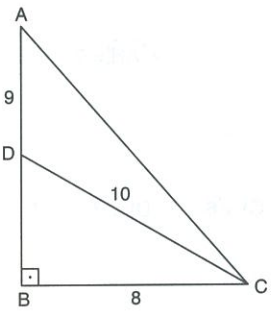
13.



$\Rightarrow 2\vec{A}\cdot 3\vec{B}=?$

A) 18 B) 15 C) 12 D) 10 E) 8

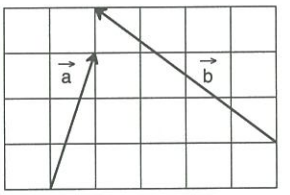
14.



$[AB]\perp[BC]$
$|AD|=9$ br
$|DC|=10$ br
$|BC|=8$ br
$\Rightarrow \overrightarrow{CA}\cdot\overrightarrow{BD}=?$

A) – 255 B) – 90 C) 55 D) 90 E) 255

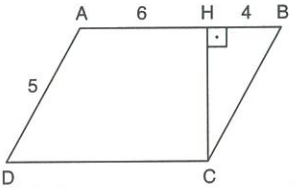
15.



$\Rightarrow \vec{a}\cdot\vec{b}=?$

A) 5 B) 6 C) 7 D) 8 E) 9

16.



ABCD paralelkenar
ABCD parallelogram
$[AB]\perp[HC]$
$\Rightarrow \overrightarrow{BA}\cdot(\overrightarrow{DA}+\overrightarrow{HC})=?$

A) – 60 B) – 40 C) – 24 D) –12 E) –10

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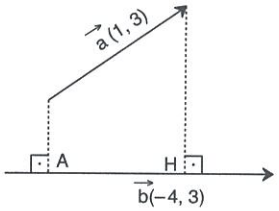
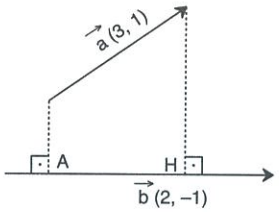
1.



$\Rightarrow |\overrightarrow{AH}| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

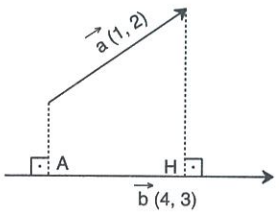
2.



$\Rightarrow |\overrightarrow{AH}| = ?$

A) 2 B) $\sqrt{5}$ C) $\sqrt{6}$ D) $\sqrt{7}$ E) $2\sqrt{2}$

3.

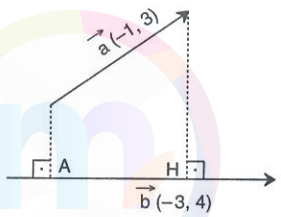


$\Rightarrow \overrightarrow{AH} = ?$

A) $\left(-\frac{4}{5}, \frac{3}{5}\right)$ B) $\left(\frac{8}{5}, \frac{6}{5}\right)$ C) $\left(\frac{4}{5}, \frac{3}{5}\right)$

D) $\left(\frac{7}{5}, \frac{4}{5}\right)$ E) $\left(\frac{2}{5}, -\frac{4}{5}\right)$

4.

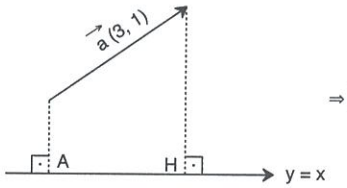


$\Rightarrow \overrightarrow{AH} = ?$

A) $\left(-\frac{9}{5}, \frac{12}{5}\right)$ B) $\left(\frac{3}{5}, \frac{4}{5}\right)$ C) $\left(\frac{1}{5}, \frac{4}{5}\right)$

D) $\left(-\frac{1}{3}, \frac{3}{5}\right)$ E) (– 3, 4)

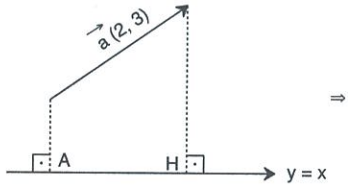
5.



$\Rightarrow |\overrightarrow{AH}| = ?$

A) 2 B) $\sqrt{5}$ C) $\sqrt{6}$ D) $\sqrt{7}$ E) $2\sqrt{2}$

6.



$\Rightarrow |\overrightarrow{AH}| = ?$

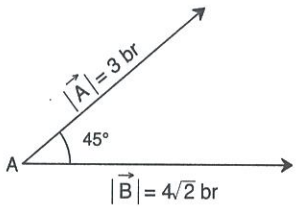
A) 1 B) $\sqrt{5}$ C) $\sqrt{7}$ D) $\frac{5\sqrt{2}}{2}$ E) $7\sqrt{5}$

7. $|\vec{a}| = 4$ br $\quad |\vec{b}| = 2$ br $\quad \vec{a} \perp \vec{b}$

$\Rightarrow |\vec{a} - \vec{b}| = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) 4 D) 5 E) 6

8.



$\Rightarrow |\vec{A} - \vec{B}| = ?$

A) $2\sqrt{2}$ B) 4 C) 5 D) $\sqrt{17}$ E) $\sqrt{35}$

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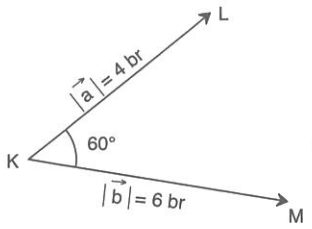
9.



$\Rightarrow |\vec{a} + \vec{b}| = ?$

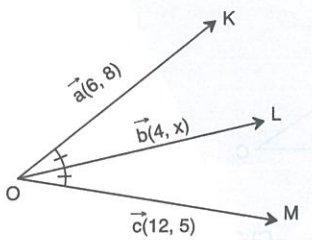
A) $3\sqrt{6}$ B) 8 C) $\sqrt{65}$ D) $2\sqrt{19}$ E) $6\sqrt{2}$

10. $|\vec{a}| = 8$ br $|\vec{b}| = 6$ br $|\vec{a} - \vec{b}| = 8$ br

$\Rightarrow \vec{a} \cdot \vec{b} = ?$

A) 12 B) 18 C) 24 D) 36 E) 48

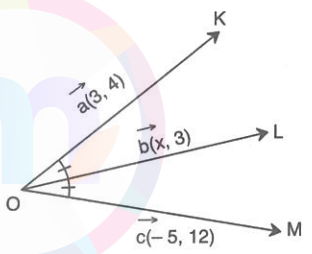
11.



$\Rightarrow x = ?$

A) $\frac{28}{9}$ B) $\frac{11}{13}$ C) $\frac{9}{11}$ D) $\frac{7}{9}$ E) $\frac{5}{7}$

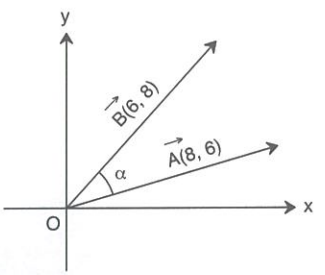
12.



$\Rightarrow x = ?$

A) $\frac{1}{4}$ B) $\frac{3}{8}$ C) $\frac{5}{8}$ D) 3 E) 4

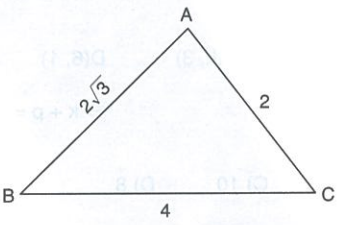
13.



$\Rightarrow \sin\alpha = ?$

A) $\frac{1}{5}$ B) $\frac{5}{24}$ C) $\frac{7}{24}$ D) $\frac{7}{25}$ E) $\frac{24}{25}$

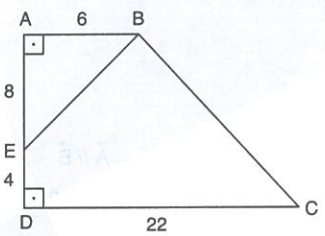
14.



$|AC| = 2$ br
$|BC| = 4$ br
$|AB| = 2\sqrt{3}$ br
$\Rightarrow \overrightarrow{BA} \cdot \overrightarrow{AC} = ?$

A) $-2\sqrt{3}$ B) -2 C) 0 D) 1 E) $2\sqrt{3}$

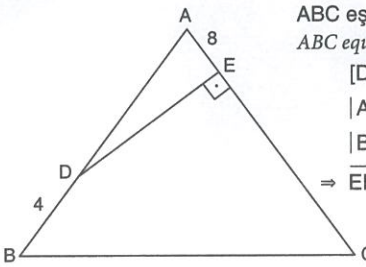
15.



ABCD dik yamuk
ABCD right trapezoid
$|AB| = 6$ br
$|AE| = 8$ br
$|ED| = 4$ br
$|DC| = 22$ br
$\Rightarrow \overrightarrow{BE} \cdot \overrightarrow{BC} = ?$

A) -200 B) -100 C) 0 D) 100 E) 200

16.



ABC eşkenar üçgen
ABC equilateral triangle
$[DE] \perp [AC]$
$|AE| = 8$ br
$|BD| = 4$ br
$\Rightarrow \overrightarrow{ED} \cdot \overrightarrow{BC} = ?$

A) -240 B) -120 C) 120 D) 200 E) 240

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1. $\vec{A}(6,m)$ $\vec{B}(n,7)$ $\overrightarrow{AB}(0,2)$

$\Rightarrow m+n=?$

A) 11 B) 10 C) 9 D) 8 E) 7

2. A(2, 3) B(–4, p) C(k, 3) D(6, 1)

$\overrightarrow{AB} = \overrightarrow{CD}$ $\Rightarrow k + p = ?$

A) 15 B) 13 C) 10 D) 8 E) 7

3. $\vec{A}(2-x,4)$ $\vec{B}(2,8)$ $\vec{A} \,//\, \vec{B}$

$\Rightarrow x=?$

A) –1 B) 1 C) 2 D) 3 E) 4

4. $\vec{A}(x,2)$ $\vec{B}(3,-5)$

$|\vec{A}+\vec{B}| = |\vec{A}-\vec{B}|$ $\Rightarrow x=?$

A) – 2 B) –1 C) $\frac{1}{2}$ D) $\frac{1}{4}$ E) $\frac{10}{3}$

5. $\vec{A}(1,3)$ $\vec{B}(a,-2)$ $\vec{A}\cdot\vec{B}=2$

$\Rightarrow a=?$

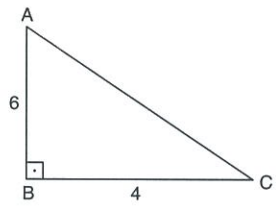
A) 4 B) 5 C) 6 D) 7 E) 8

6. $\vec{A}(3,1)$ $\vec{B}(-1,2)$ $\vec{C}(2,10)$ $x\vec{A}+y\vec{B}=\vec{C}$

$\Rightarrow x+y=?$

A) 5 B) 6 C) 7 D) 8 E) 9

7.



$[AB] \perp [BC]$

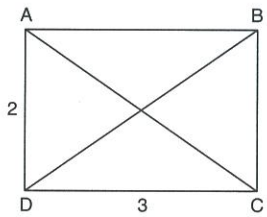
$|AB| = 6$ br

$|BC| = 4$ br

$\Rightarrow \overrightarrow{AB}\cdot\overrightarrow{AC} = ?$

A) 6 B) 12 C) 24 D) 36 E) 72

8.



ABCD dikdörtgen

ABCD rectangle

$|AD| = 2$ br

$|DC| = 3$ br

$\Rightarrow \overrightarrow{DB}\cdot\overrightarrow{AC} = ?$

A) – 5 B) – 4 C) 4 D) 5 E) 13

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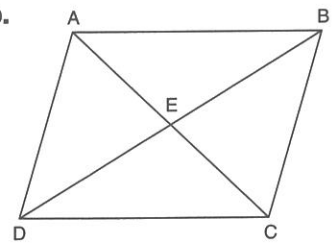
9. 

ABCD eşkenar dörtgen
ABCD rhombus
$|AC| = 8$ br
$|BD| = 6$ br
$\Rightarrow \overrightarrow{EC} \cdot (\overrightarrow{AB} + \overrightarrow{BE}) = ?$

A) 9 B) 12 C) 15 D) 16 E) 20

10. $\vec{x} = (a-1)\vec{e_1} + a\vec{e_2}$
$\vec{y} = (a+2)\vec{e_1} - a\vec{e_2}$
$\vec{x} \perp \vec{y}$
$\Rightarrow a = ?$

A) -2 B) -1 C) 0 D) 1 E) 2

11. $2\vec{x} - \vec{y} = (-1,3)$
$\vec{x} + 2\vec{y} = (7,4)$
$\Rightarrow \vec{x} \cdot \vec{y} = ?$

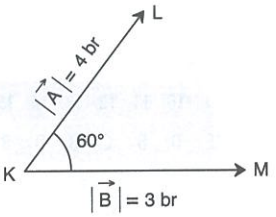
A) -2 B) -4 C) 3 D) 5 E) 7

12. A(5, –4) B(2,3) C(9, x)
$\overrightarrow{AB} \perp \overrightarrow{BC}$
$\Rightarrow x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

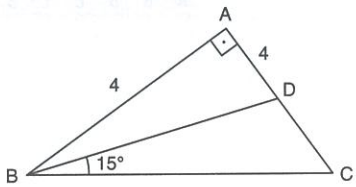
13. $\vec{A} + \vec{B} = (5,2)$
$|\vec{A}|^2 + |\vec{B}|^2 = 13$
$\Rightarrow \langle \vec{A}, \vec{B} \rangle = ?$

A) 2 B) 3 C) 5 D) 7 E) 8

14. 

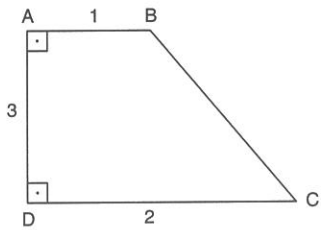
$\Rightarrow 4\vec{A} \cdot 3\vec{B} = ?$

A) 144 B) 72 C) 36 D) 18 E) 9

15. 

$[AB] \perp [AC]$
$|AB| = |AD| = 4$ br
$m(\widehat{DBC}) = 15°$
$\Rightarrow \overrightarrow{AB} \cdot (\overrightarrow{BD} + \overrightarrow{BC})$

A) -2 B) -4 C) -8 D) -16 E) -32

16. 

ABCD dik yamuk
ABCD right trapezoid
$|AB| = 1$br
$|AD| = 3$br
$|DC| = 2$br
$\Rightarrow \langle \overrightarrow{DC}, \overrightarrow{BC} \rangle = ?$

A) -2 B) -1 C) 1 D) 2 E) 4

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VEKTÖRLER VECTORS
Yanıt Anahtarı Answer Key

TEST 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
B	A	D	C	E	B	E	B	E	D	B	C	B	D	B	B

TEST 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	C	E	B	D	B	A	D	E	E	A	E	D	E	B	A

TEST 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	A	C	A	B	A	C	A	C	B	B	C	A	D	A	B

TEST 4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	B	B	A	E	D	B	D	D	B	A	B	D	C	C	A

TEST 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	B	B	E	E	B	D	D	D	E	D	E	E	B	E	D