

matematik

$$1-) \sqrt{5} \left(\frac{\sqrt{45} + \sqrt{15}}{\sqrt{3}} - \frac{\sqrt{45} + 3}{\sqrt{5}} \right)$$

$$\sqrt{5} \left(\cancel{\sqrt{15}} + \sqrt{5} - \cancel{\sqrt{15}} - \frac{3}{\sqrt{5}} \right)$$

$$5 - 3 = \boxed{2}$$

$$2-) \frac{1}{1 - 2\sqrt{x}} = 3$$

$$1 = 3 - 6\sqrt{x}$$

$$6\sqrt{x} = 2$$

$$\sqrt{x} = \frac{1}{3}$$

$$\boxed{x = \frac{1}{9}}$$

$$3-) p(x) = ax^2 - 28x + 12a$$

$$p(b) = p(6b) = 0$$

$$a+b = ? \quad \boxed{3\sqrt{2}}$$

$$b+6b = \frac{28}{a}$$

$$a \cdot b = 4$$

$$6b^2 = 12 \quad b = \sqrt{2} \quad a = 2\sqrt{2}$$

$$4-) 2a = b$$

$$a \cdot c = 54$$

$$\frac{b}{2} \cdot (2b+b) = 54$$

$$2b = c - 6$$

$$a \cdot b = d$$

$$b = 6 \quad a = 3$$

$$d = ? \quad \boxed{18}$$

$$5-) \begin{array}{r} kL6 \\ \times \quad m \\ \hline 5mmmm \end{array}$$

$$k + (L + m) = ?$$

$$m = 8$$

$$L = 3$$

$$k = 7$$

$$\boxed{18}$$

$$6-) |x| - |y| = 5|x|$$

$$|y| = 6|x|$$

$$|y - x| = 5$$

$$|5|x|| = 5$$

$$x \cdot y = ?$$

$$x = 1$$

$$y = 6$$

$$\boxed{6}$$

$$7-) (x+2y)^2 = 4xy + 9$$

$$x^2 + 4y^2 = 9$$

$$2x^2 - 3y^2 = 7$$

$$2x^2 - 3y^2 = 7$$

$$x^2 = 1$$

$$y^2 = 5$$

$$x^2 + y^2 = ?$$

$$5 + 1 = \boxed{6}$$

$$8-) 0 < 2x < y$$

$$|2x - y| = 7$$

$$x + y = ?$$

$$x = 8$$

$$8 + 9 = \boxed{17}$$

$$|y - 5x| = 37$$

$$y = 9$$

$$9-) \begin{array}{r} 2AB \mid 5 \\ \hline 4 \end{array}$$

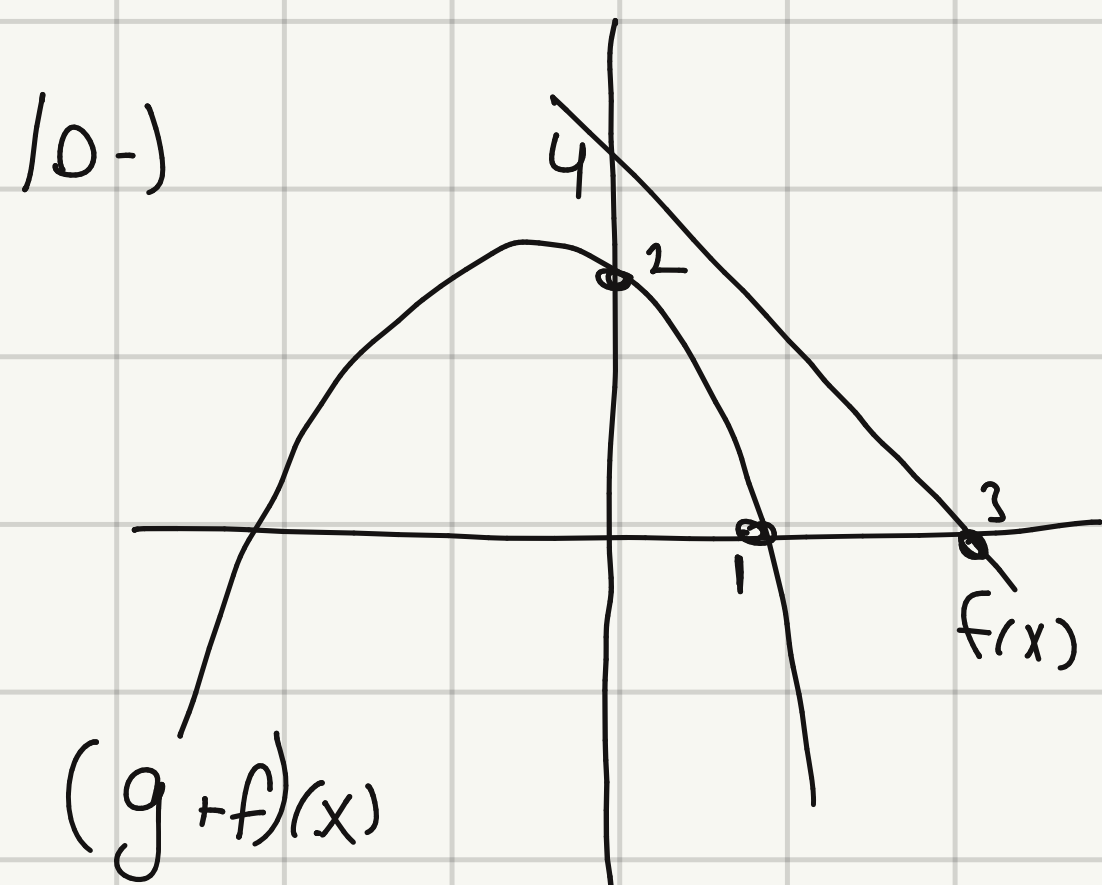
$$\begin{array}{r} 2AB \mid 8 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 2AB \mid 9 \\ \hline 5 \end{array}$$

$$A \cdot B = ?$$

$$2AB = 5x + 4 = 8y + 4 = 9z + 5$$

$$\text{Sık eleme} \rightarrow \boxed{\text{cevap} = 32}$$



$$g(x) = ax^2 + ax + b$$

$$a = ?$$

$$\frac{x}{3} + \frac{y}{4} = 1 \quad f(x) = \frac{12-4x}{3}$$

$$g(1) + f(1) = 0 \rightarrow 2a + b + \frac{8}{3} = 0$$

$$g(0) + f(0) = 2$$

$$b + 4 = 2 \quad b = -2$$

$$2a - 2 + \frac{8}{3} = 0 \quad 2a = -\frac{2}{3} \quad \boxed{a = -\frac{1}{3}}$$

$$11-) f(x-3) = x$$

$$f \circ f(a) = g(b)$$

$$g(x) = 2x + 1 \quad a = ?$$

$$f(a+1) = 13$$

$$a + b = 13 \quad \boxed{a = 7}$$

$$12-) 3b + ac = 18$$

$$3(b-a) - c(b-a) = 0$$

$$3a + bc = 18$$

$$(3-c)(b-a) = 0$$

$$2c + ab = 12$$

$$c = 3$$

$$a \cdot b \cdot c = ?$$

$$\boxed{6 \cdot 1 = 18}$$

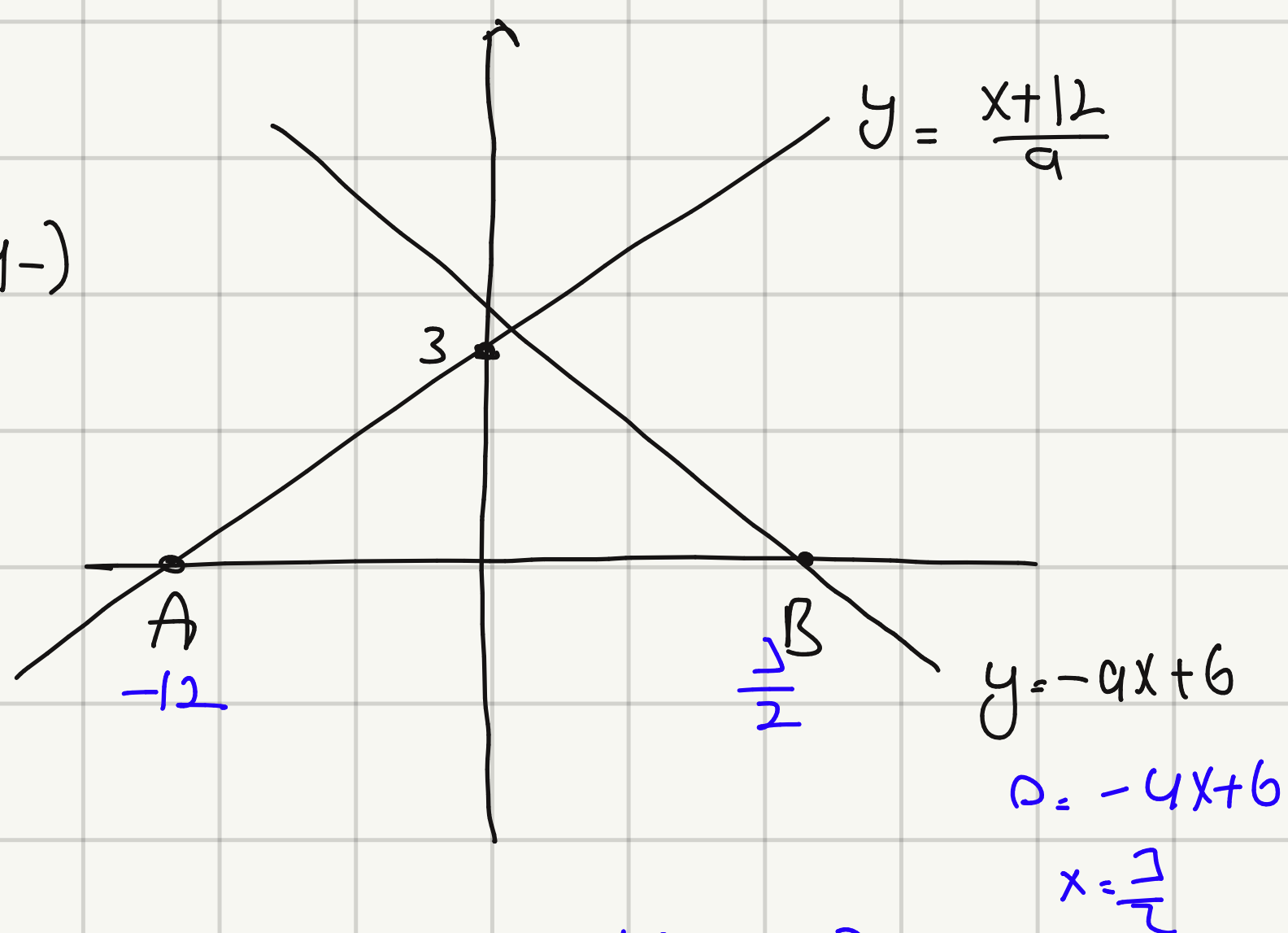
$$13-) \overset{+}{A} \cdot \overset{-}{B} \cdot \overset{+}{C} < \overline{A \cdot B} < 0 < A^2 \cdot B^2 < \overset{+}{A} \cdot \overset{+}{B}^2$$

$$? < ? < ?$$

$$A = + \quad B = -$$

$$\boxed{C > A > B}$$

14-)



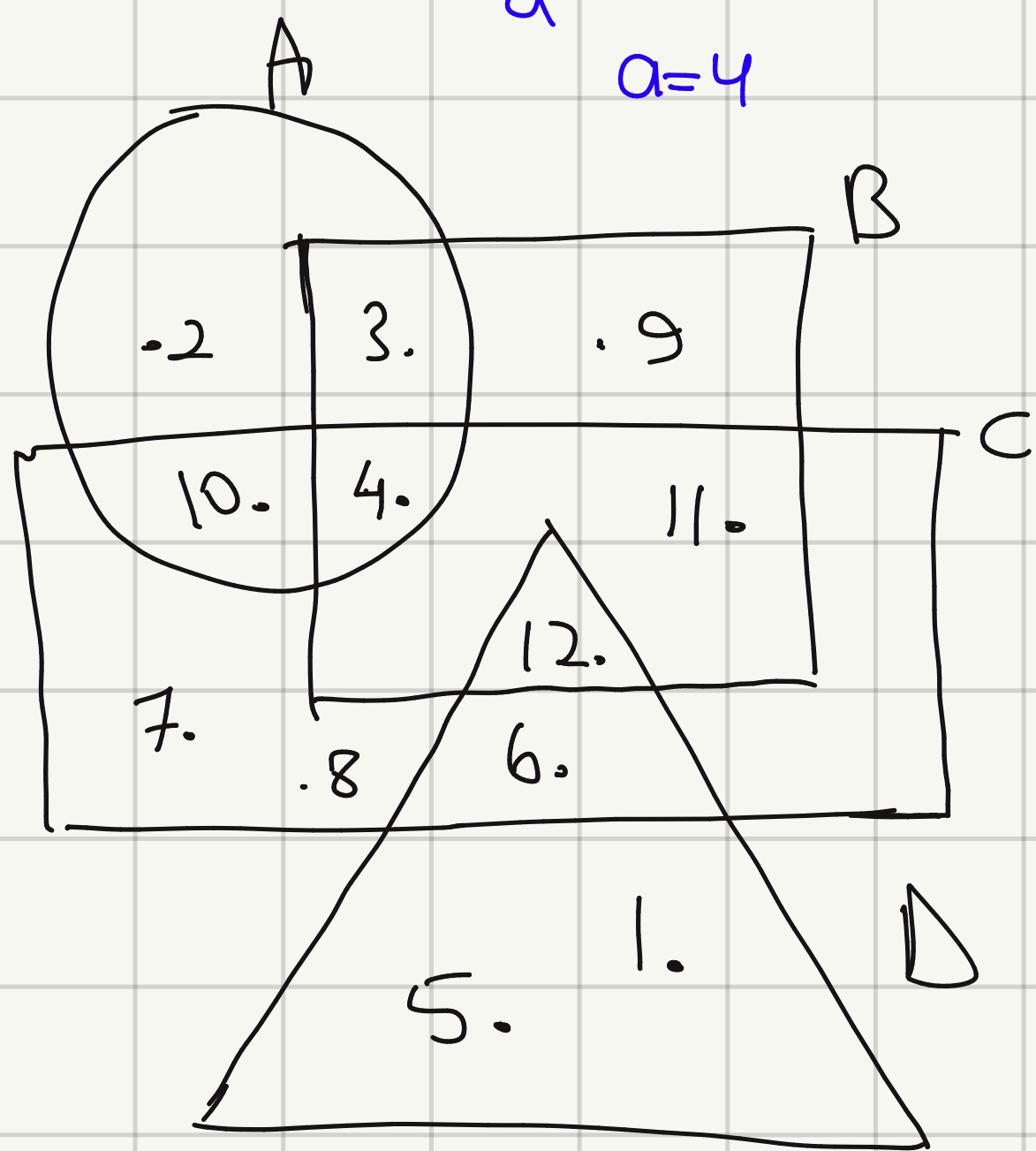
$|AB| = ?$

$$\frac{3}{2} + 12 = \boxed{\frac{27}{2}}$$

$$\frac{0+12}{a} = 3$$

$$a = 4$$

15-)



$$X = \{7, 8, 9, 11\}$$

$x \rightarrow ?$

$$\boxed{(B \cup C) \setminus (A \cup D)}$$

16-)

$$f(x) = 2x - 1$$

$$g(x) = -3x + 4$$

$$f(g(0)) + g(f(1)) = ?$$

$$\underbrace{4}_{f(0)} + \underbrace{1}_{g(1)} = \boxed{5}$$

17-)

$$\frac{x^2 + 7x + 12}{x^3 + 6x^2 - 7x} \cdot \frac{x^3 + 8x^2 + 7x}{x^2 + 5x + 4} = ?$$

$$\boxed{\frac{x+3}{x-1}}$$

$$\frac{(x+4)(x+3) \cdot (x+7)(x+1)}{(x+7)(x-1)(x+4)(x+1)}$$

18-)

$$2^{4x-10} \cdot 5^{2y+1} = 500$$

$$2y+1=3 \quad 4x-10=2$$

$$y=1 \quad x=3$$

$$x+y = ? \quad 3+1 = \boxed{4}$$

19-)

$$\frac{\frac{4}{11} + \frac{4}{3}}{\frac{7}{3} \cdot \frac{8}{5}} = \frac{\frac{4 \cdot 14}{33 \cdot 11}}{\frac{7 \cdot 8}{3 \cdot 5}} = \boxed{\frac{5}{11}}$$

$$20-) \frac{x+1}{2} - \frac{x+1}{4} \leq \frac{2}{x-6} \quad x=?$$

Cevap: 7

$$\frac{x+1}{4} \leq 2$$

$$x \leq 7$$

$$21-) \begin{array}{l} x^8 + 2x^6 - x^4 - 2x^2 + a + 4 \\ \hline x^2 + 2 \end{array}$$

$$a=?$$

$$x^2 = -2$$

$$(-2)^4 + 2 \cdot (-2)^3 - (-2)^2 - 2(-2) + a + 4 = 2$$

$$a = -2$$

$$16 - 16 - 4 + 4 + a + 4 = 2$$

$$22-) \frac{10! - 2 \cdot 8!}{6! \cdot 7 + 4 \cdot 6!} = \frac{7 \cdot 8 \cdot \overbrace{8 \cdot 8}^8}{8! \cdot (10 \cdot 9 - 2)} = 56 \cdot 8 = 448$$

Eksik soru kısmı

$$23-) \frac{3^4 \cdot 8^2 - 18^2}{1} =$$

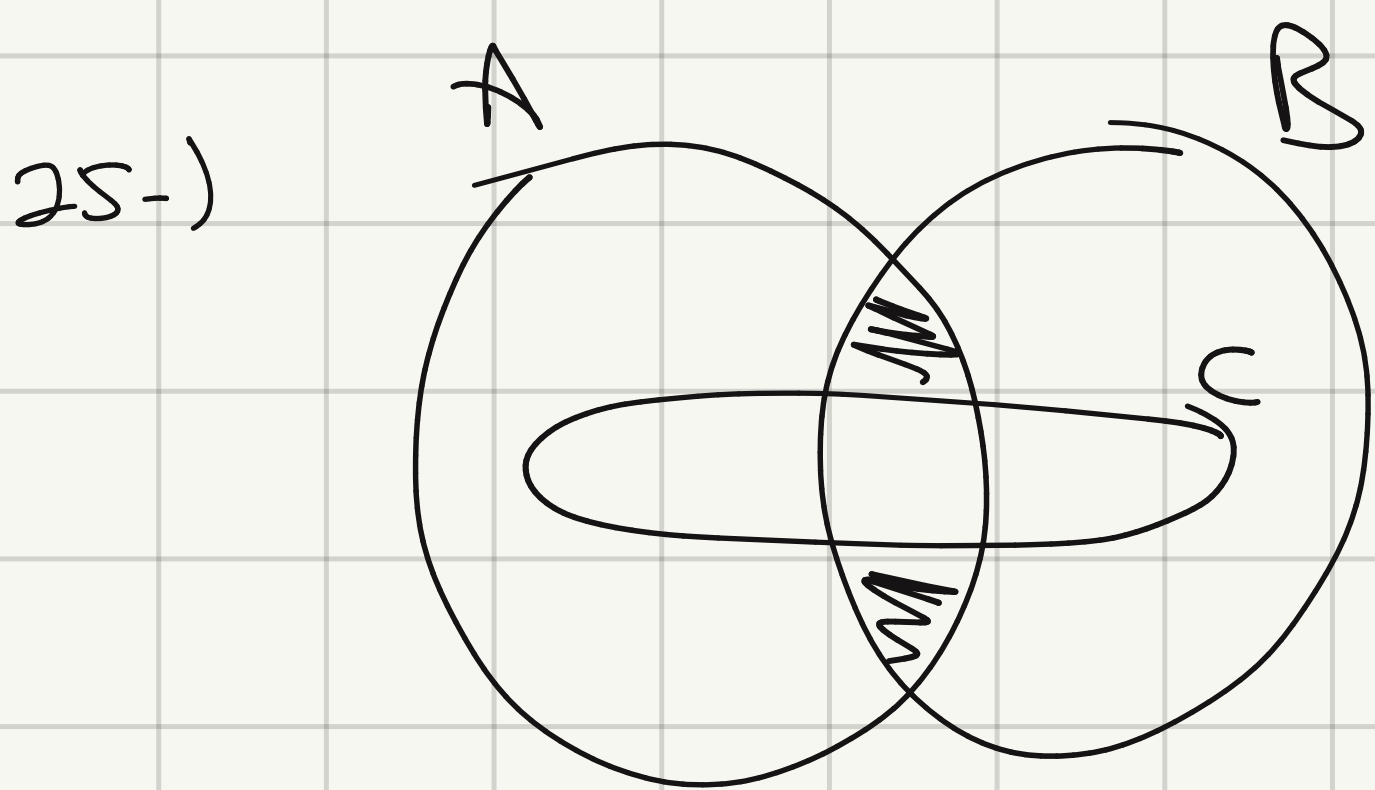
$$24-) A \cup B \cup C = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$$

$$A \cap C =$$

$$C \cap B = \{1, 2\}$$

$$B = ?$$

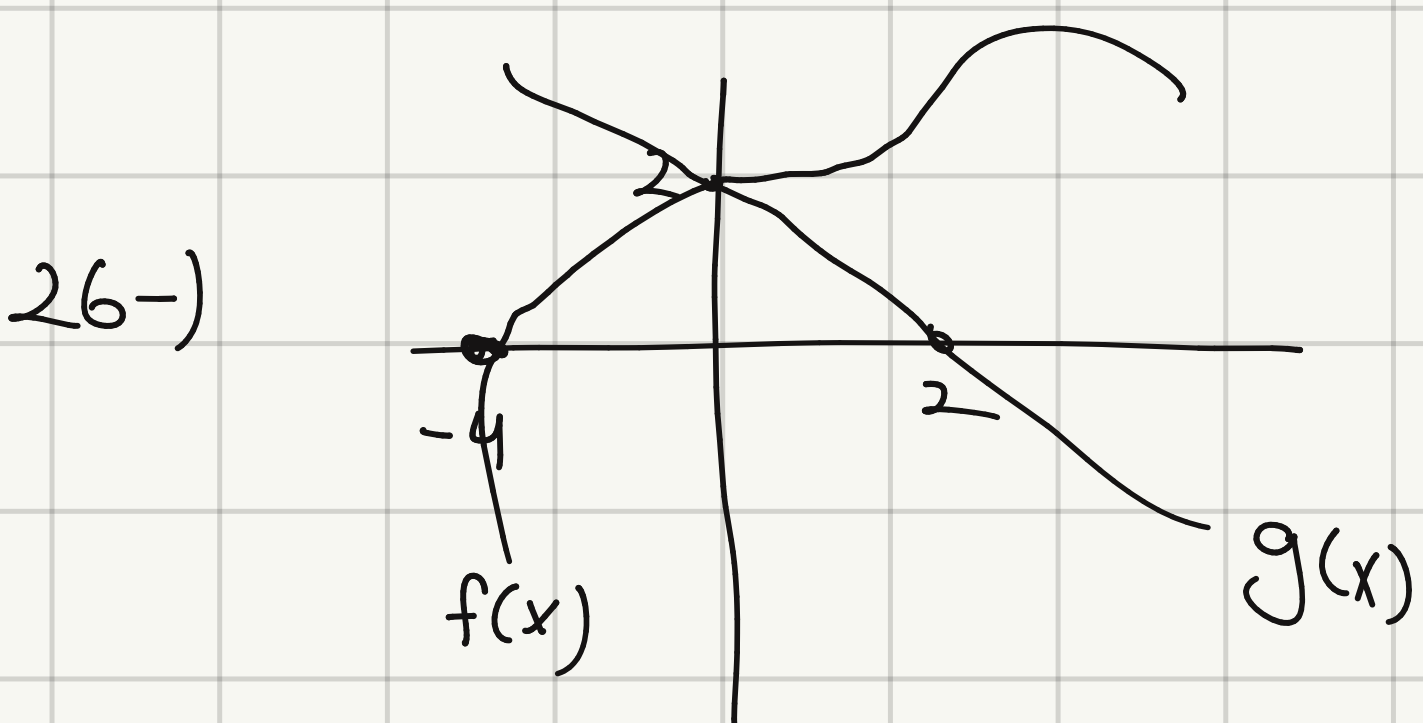
$$\text{Cevap: } \{3, 4, 6, 7, 9\}$$



$$(A \cap C) = \{1, 2, 7, 8\}$$

$$(A \cap B) \cap C = \emptyset$$

$$\text{Cevap: } \{3\}$$



$$\frac{f'(0) + g'(2)}{f(0)g(2)}$$

$$\text{Cevap: } -\frac{3}{2}$$

$$27-) \frac{3^6 - 3^4 + 3^2}{3^5 - 3^3 + 3} = ?$$

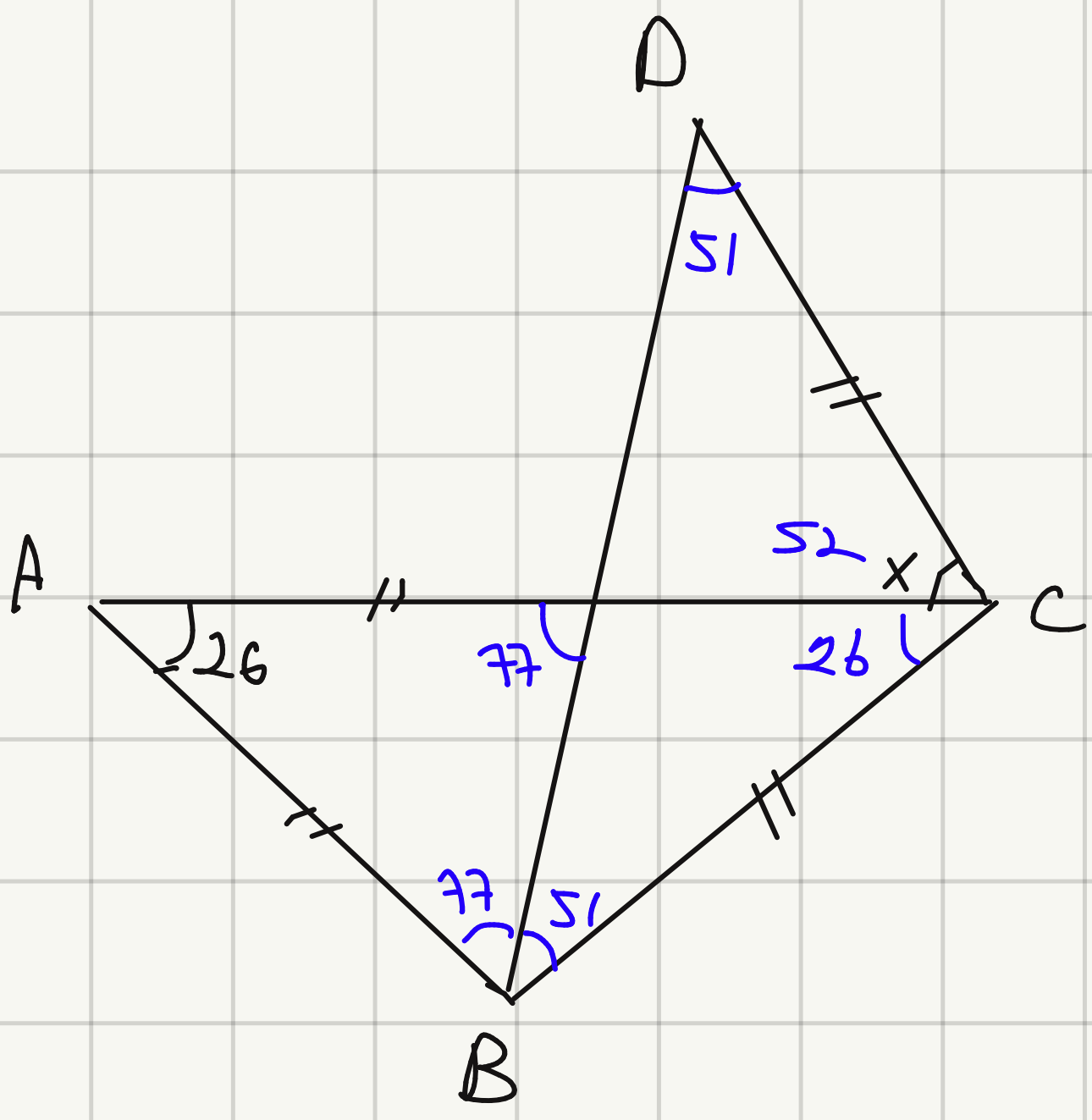
Eksik soruları hatırlayan varsa bana atabilir

Ayça Homad

05525308107

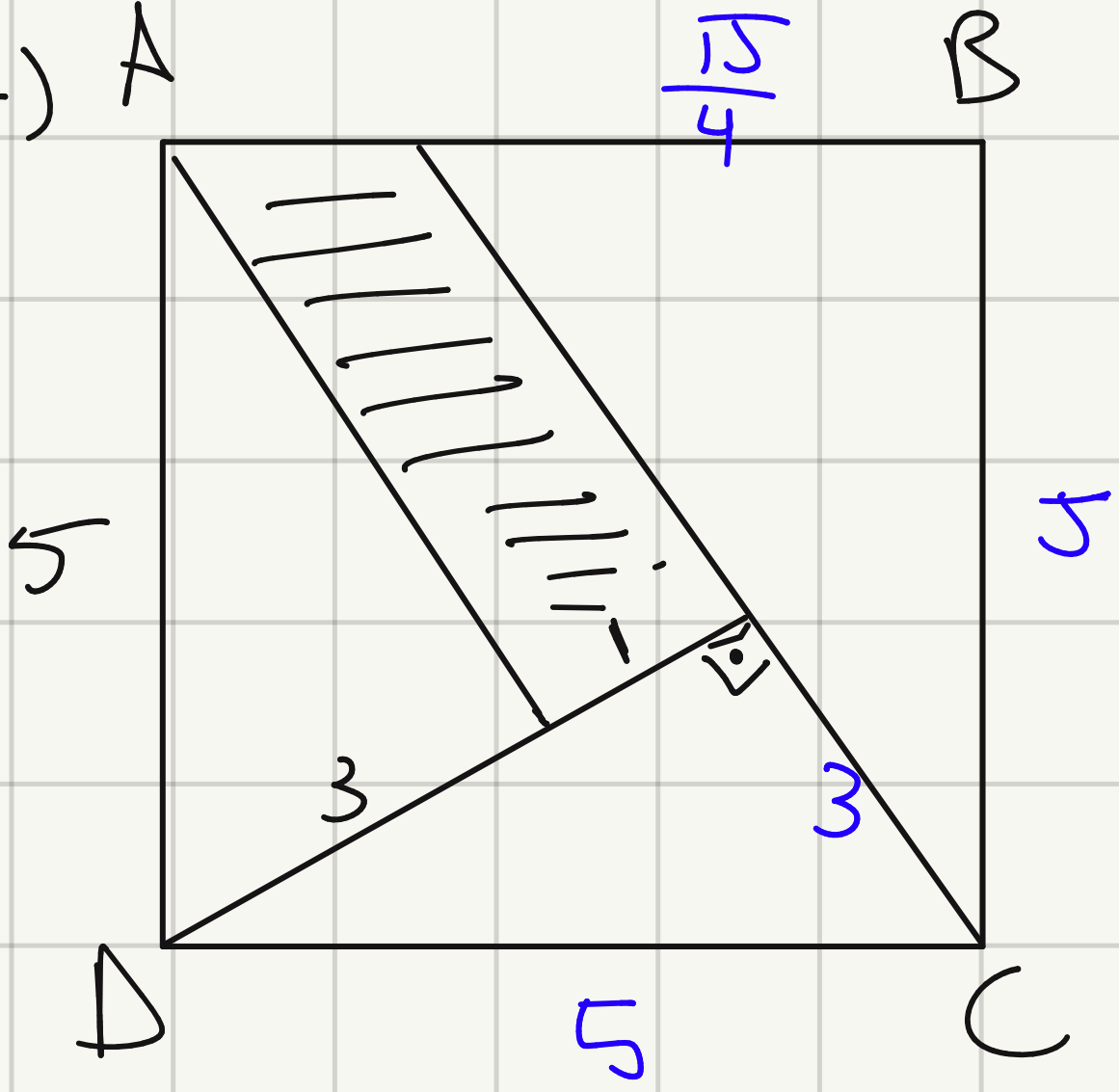
Geometri

1-)



$$x = 52$$

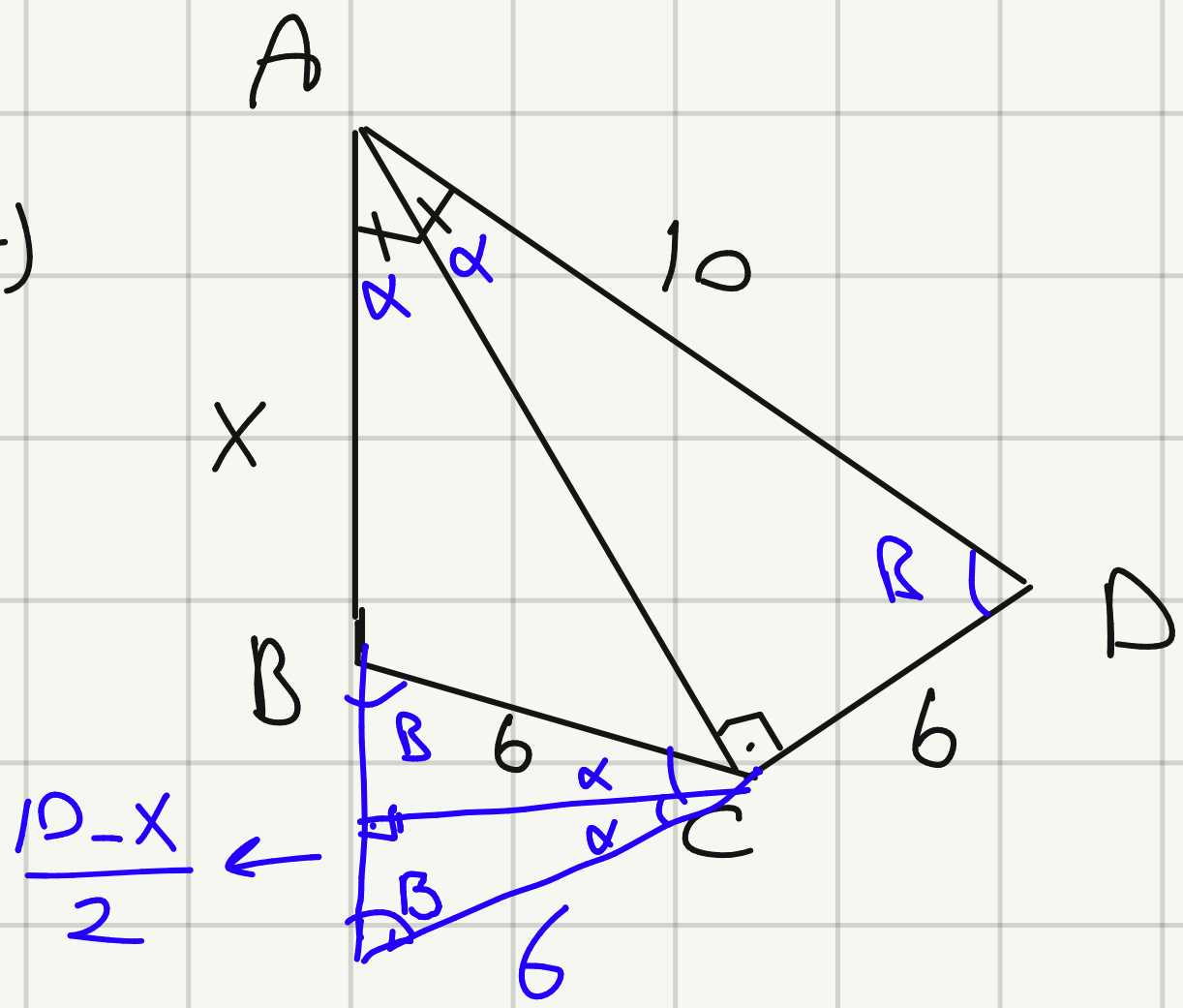
2-)



ABCD bir kare olmak üzere
taralı alan = ?

$$25 - 6 - 6 - \frac{75}{8} = \frac{29}{8}$$

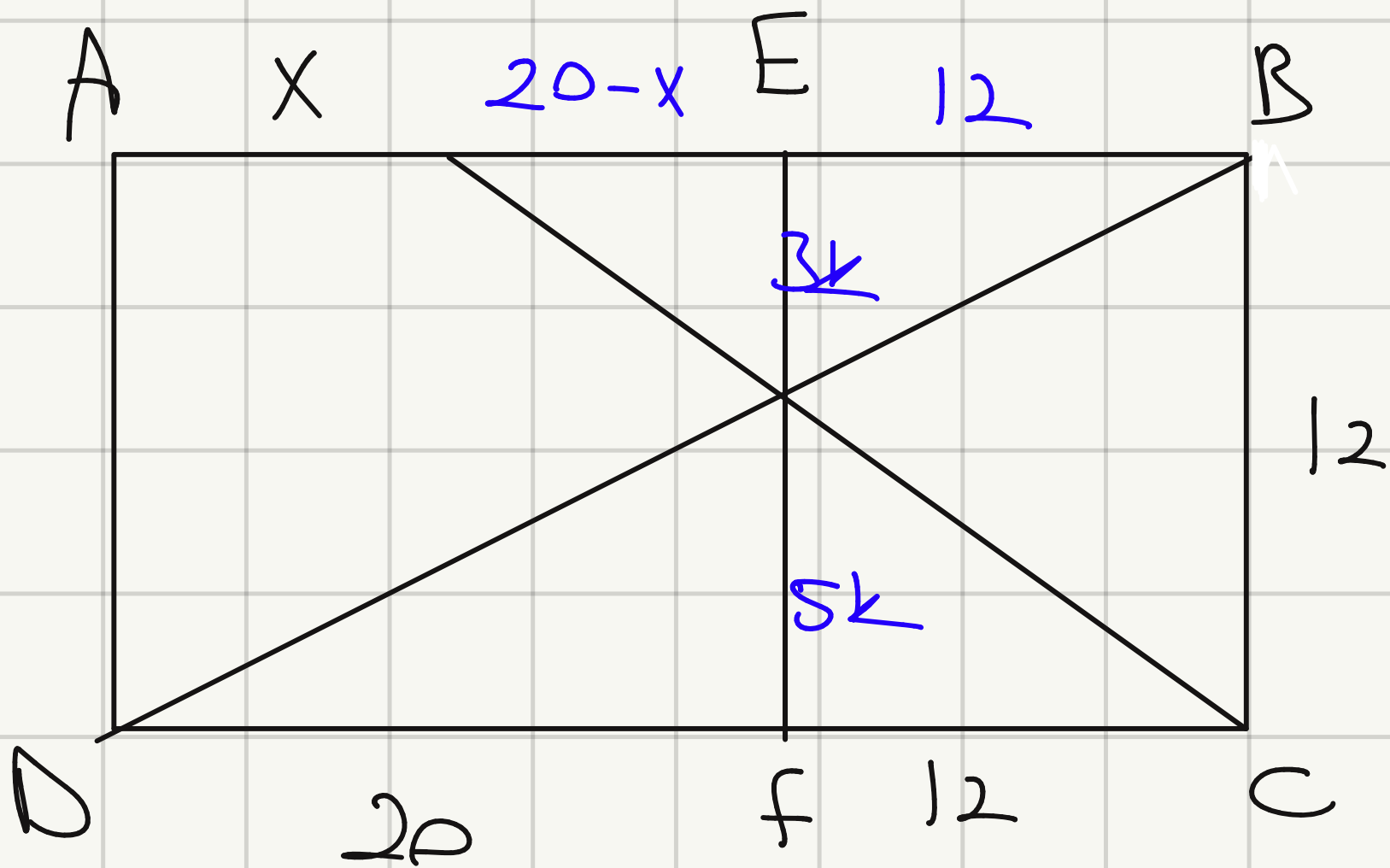
3-)



$m(\angle BAC) = m(\angle CAD)$ ise
 $x = ?$

$$\frac{6}{\frac{10-x}{2}} = \frac{10}{6} \quad x = \frac{14}{5}$$

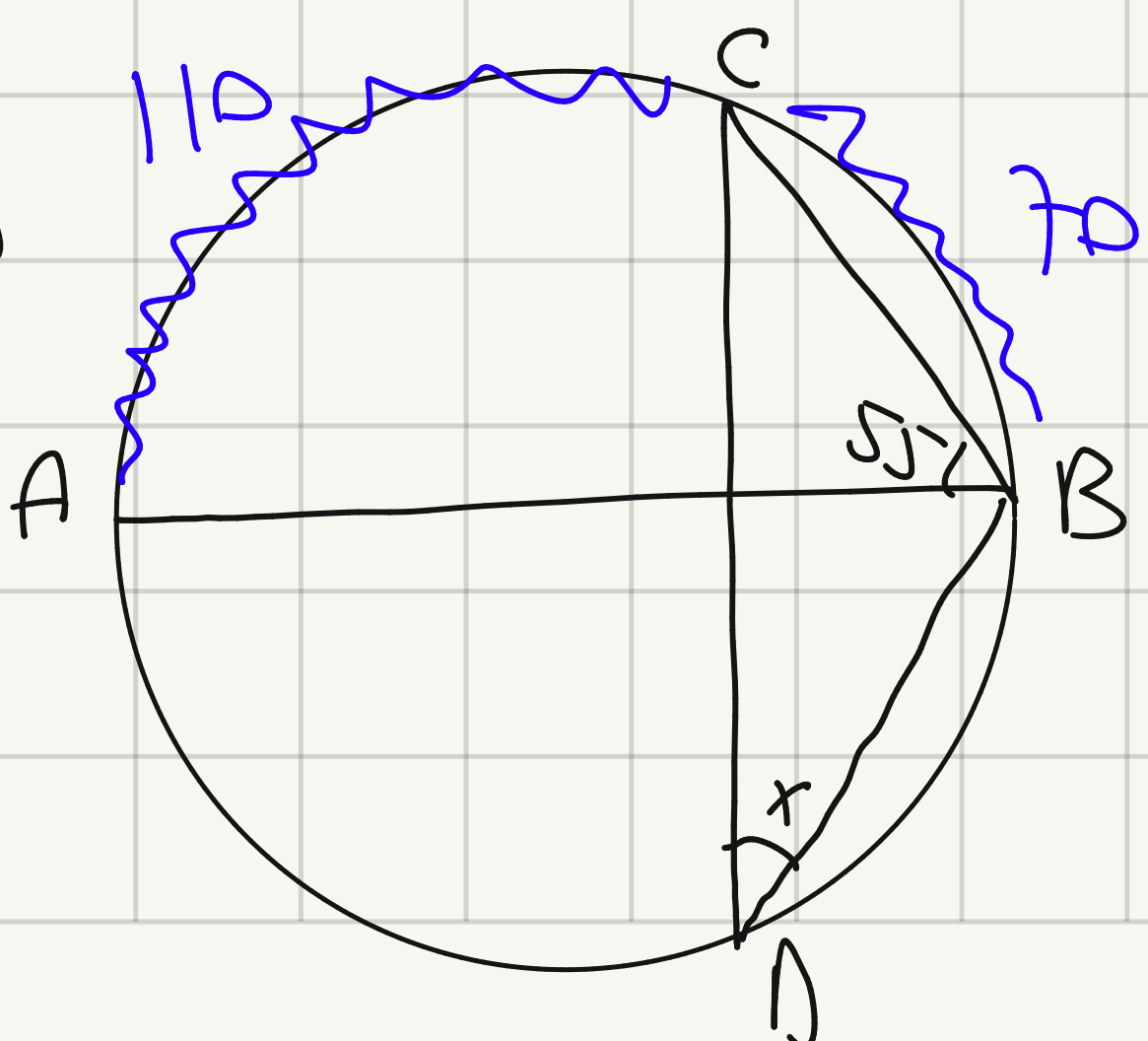
4-)



ERCF bir kare
ABCD bir dikdörtgen olmak üzere
 $x = ?$

$$\frac{3}{5} = \frac{20-x}{12} \quad x = \frac{64}{5}$$

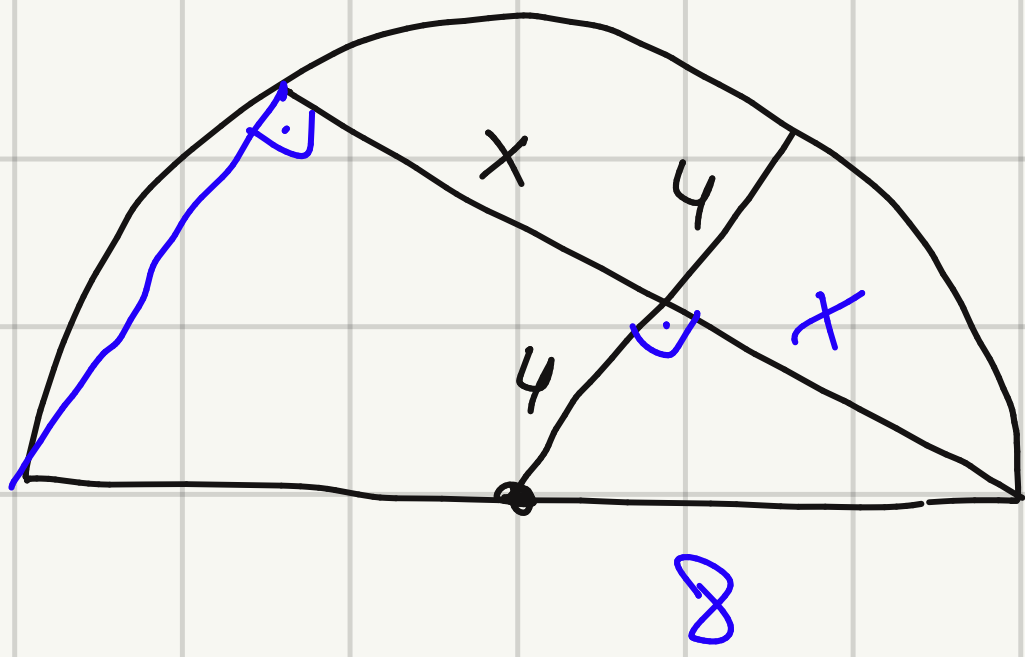
5-)



AB çap
 $x = ?$

$$x = \frac{70}{2} = 35$$

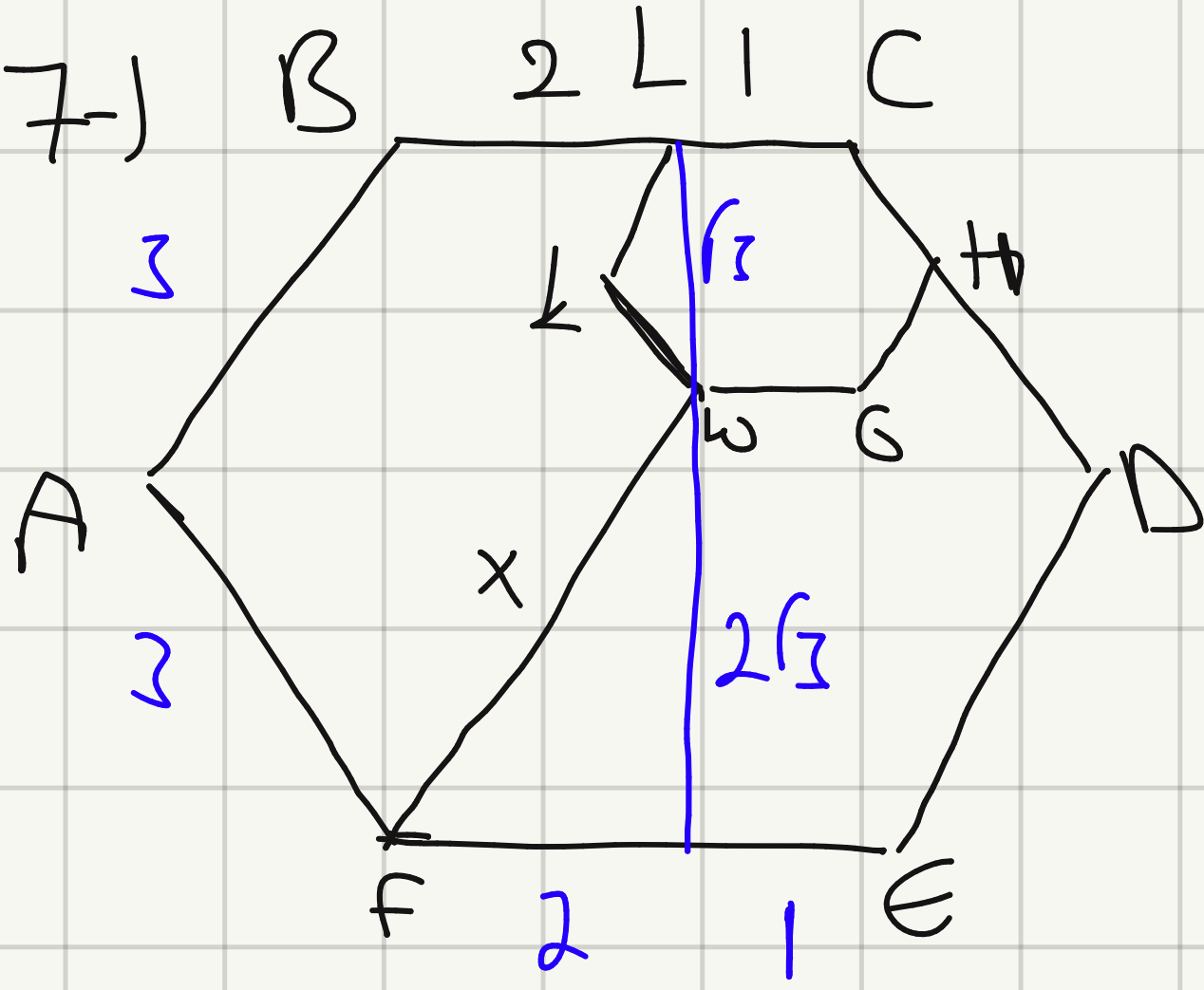
6-)



$$x = ?$$

$$x = 4\sqrt{3}$$

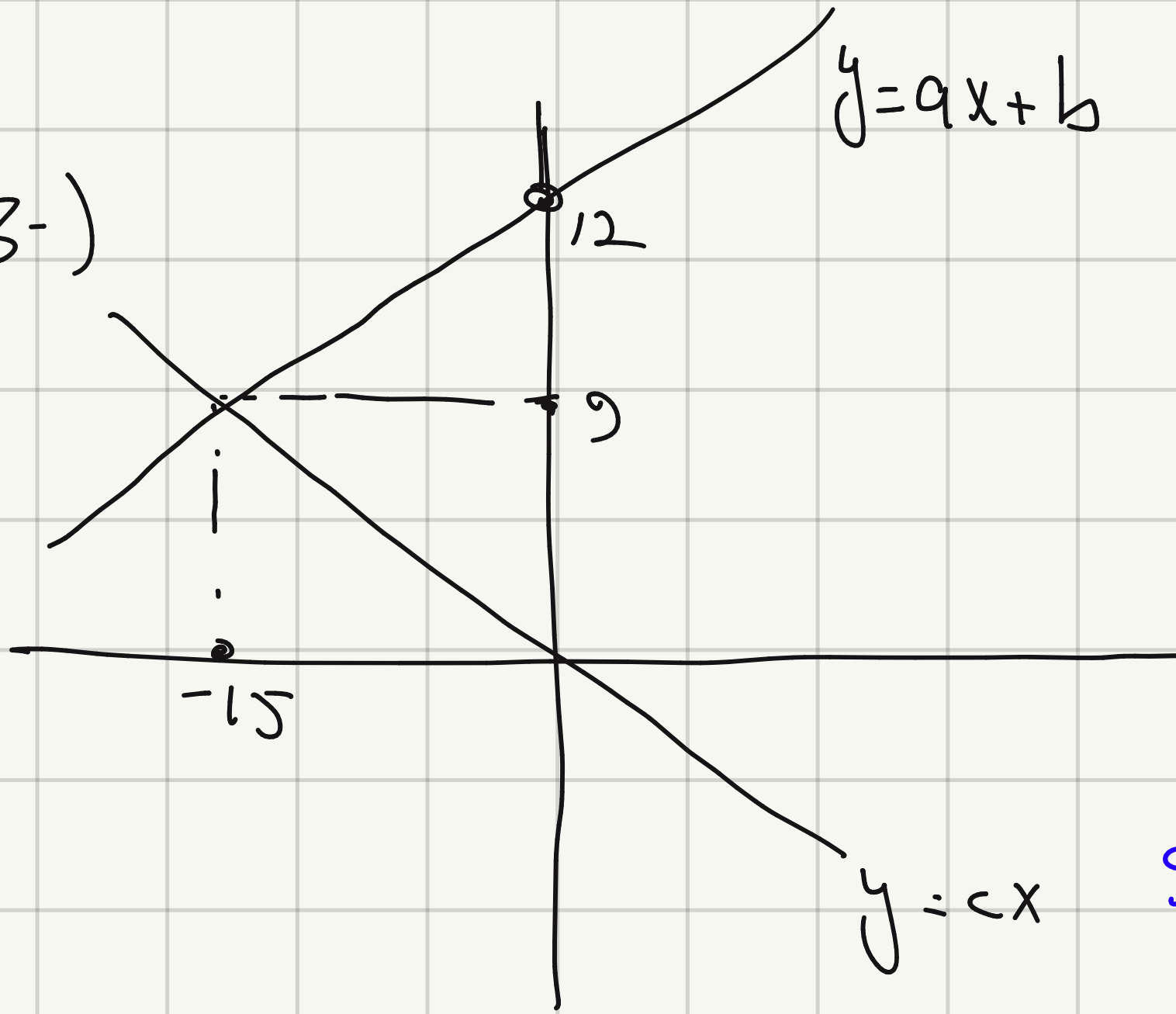
7-)



ABCDEF ve LCHGWK düzgen
altıgen olduğuna göre $x = ?$

$$x = 4$$

8-)



$$a + b + c = ?$$

$$a = \frac{1}{5} \quad b = 12 \quad c = -\frac{3}{5}$$

$$\begin{aligned} (-15, 9) &= \frac{y-12}{x} \\ (0, 12) &= \frac{y-12}{x} \\ (x, y) &= \frac{y-12}{x} \end{aligned}$$

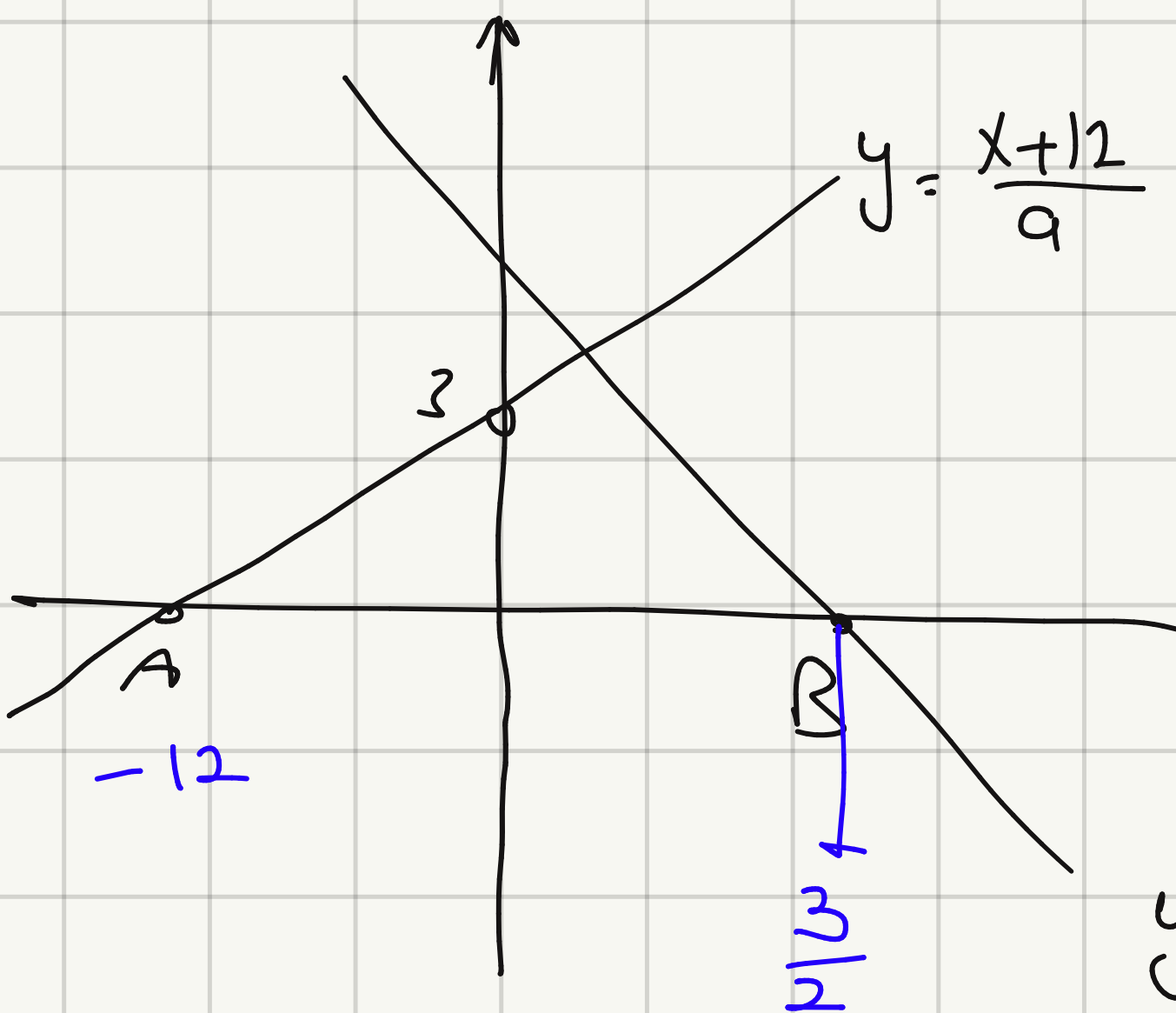
$$5y - 60 = x$$

$$y = \frac{x}{5} + 12$$

$$a = \frac{1}{5}, \quad b = 12$$

$$\text{Cevap: } \frac{58}{5}$$

9-)



$$\begin{aligned} x &= 12 \\ y &= 3 \end{aligned}$$

$$\frac{12}{a} = 3$$

$$a = 4$$

$$\frac{3}{2} + 12 = \frac{27}{2}$$

$$y = -ax + b$$

$$-4x + b$$