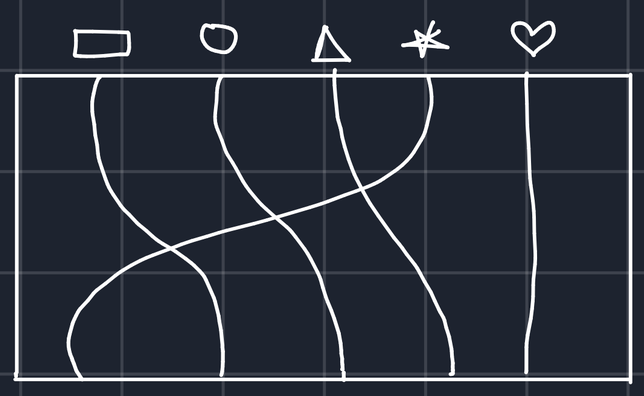
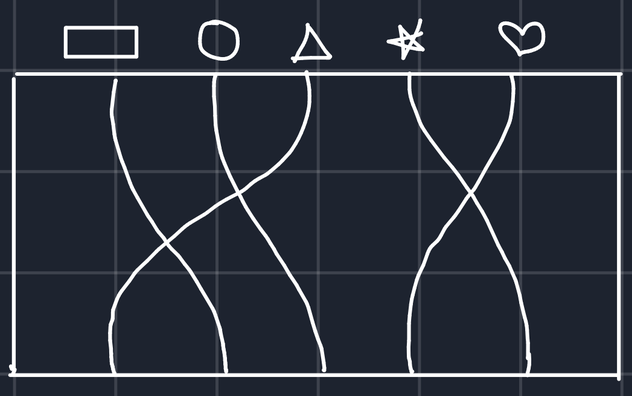
02188562177

مترو پل سعادت آباد

1)



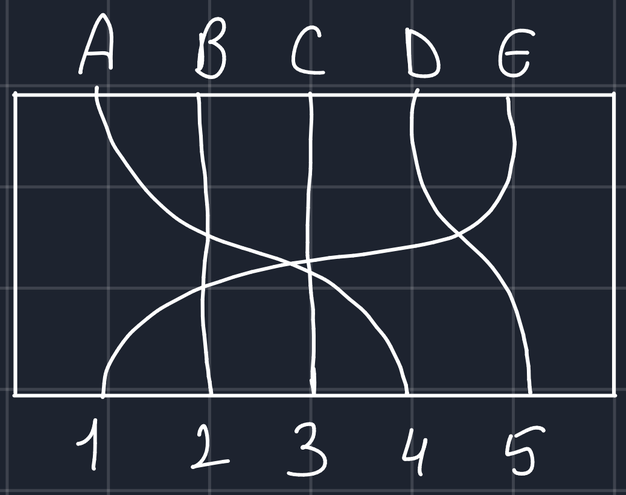


1 2 3 4 5

A B C D E

1 2 3 4 5

Gözüm:



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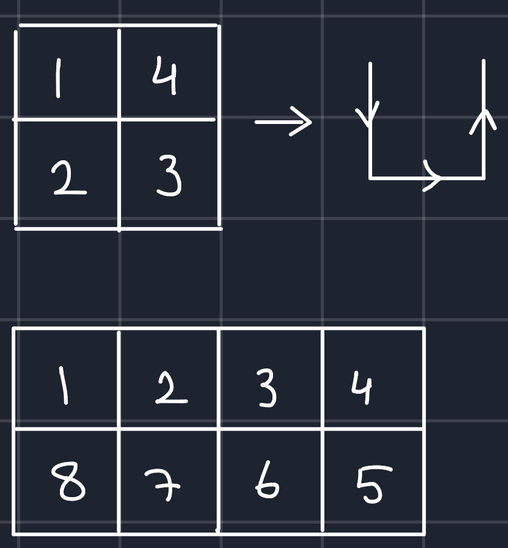
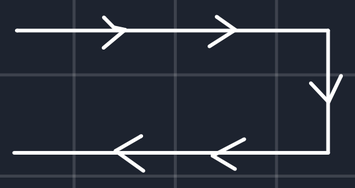
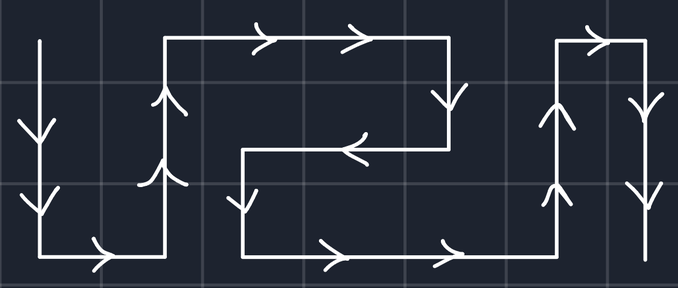


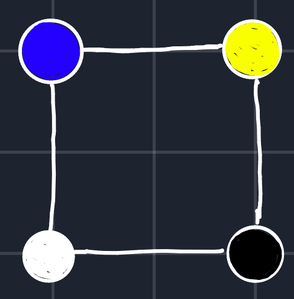


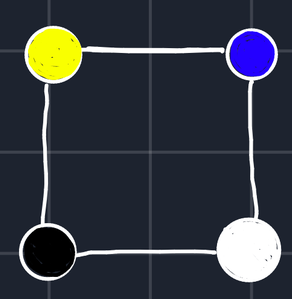


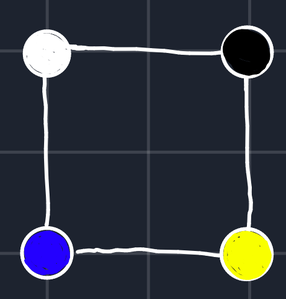
A+B+C=?

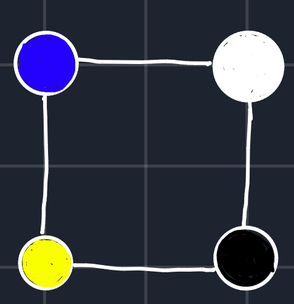
11+15+16 = 42

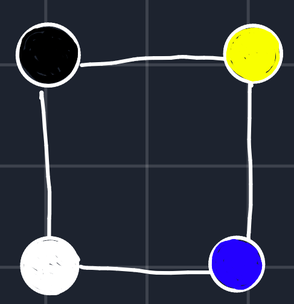
3) farklı olan şekli bulunuz.

A) 

B) 

C) 

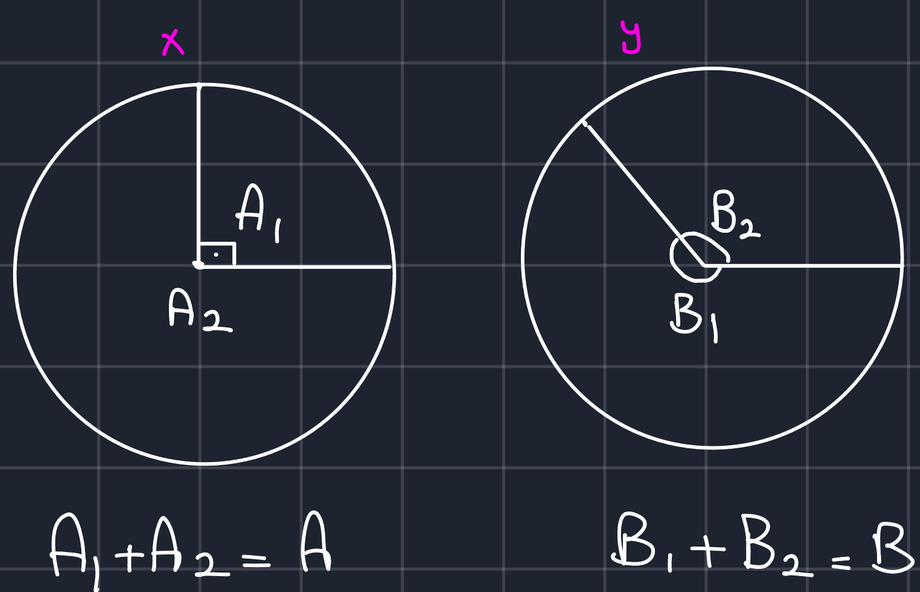
D) 

E) 

Cevap: A

---

4)



$A_1 + A_2 = A$

$B_1 + B_2 = B$

$A_2 = B_2 = x$

$x = ?$

Çözüm: $270x = 135y$

$2x = y$

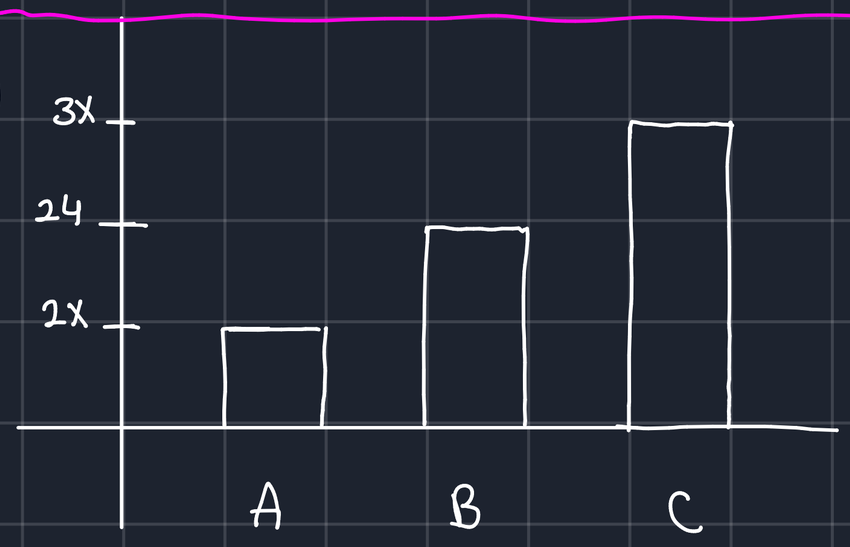
$k \quad 2k$

$3k = 360$

$k = 120$

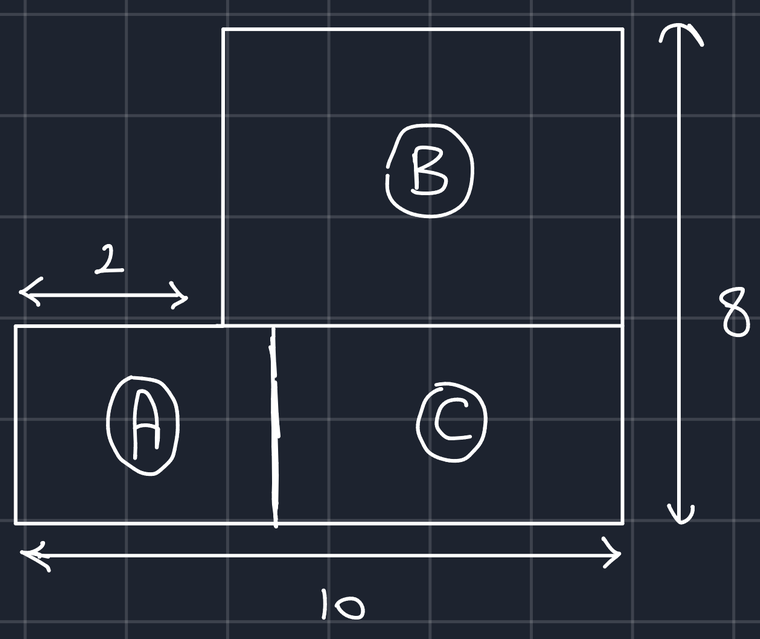
$b_2 = 2k = \underline{240}$

---

5) 

yanda verilen grafikte A, B ve C'nin alanlarını göstermektedir

$X = ?$ Çözüm:



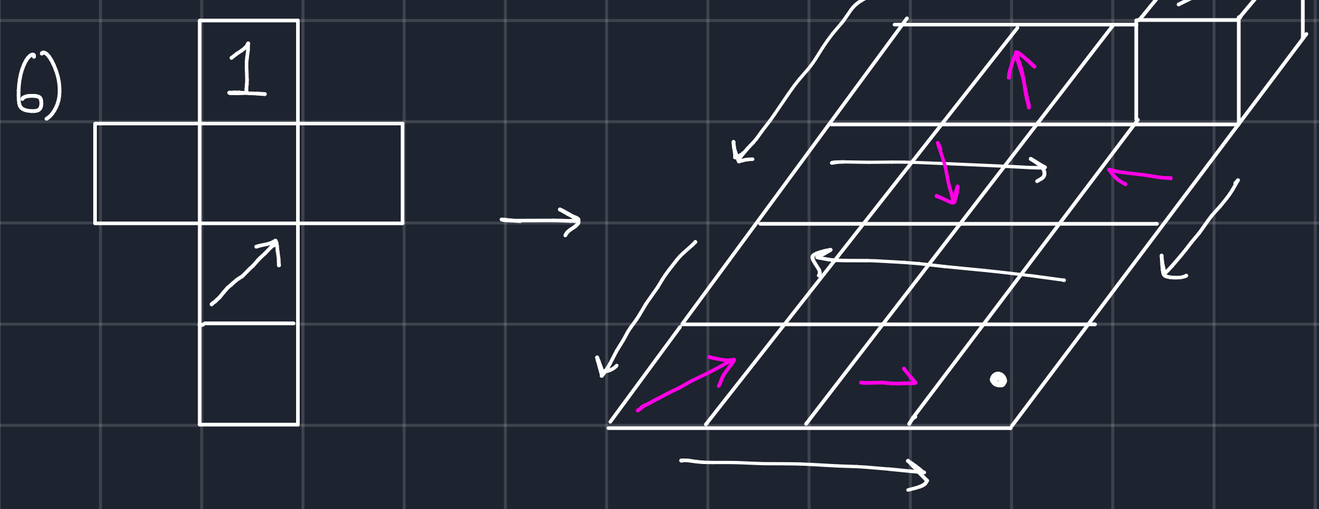
$8 \cdot a = 24$

$a = 3$

$5 \cdot 6 = 3x + 2x$

$\boxed{x = 5}$

6)



---

7) 12 | 15 | 24 → 232

33 | 77 | 20 → 372

14 | 21 | 35 → 235

26 | 65 | 9 → ?

Çözüm: her sayının en küçük böleni (1 hariç)

26 → 2

65 → 5

9 → 3

2 5 3

---

8) farklı olan şekli bulunuz.

A) N B) Z C) ⊏

Cevap = E

D) ⊔ E) □

---

9)

---

10)

X	2^a	2^b	2^c
2^a			
2^b	2^c		
2^c			

+	ab	ac	bc
ab			
ac		12	
bc		36	

$$\frac{c}{b-a} = ?$$

Çözüm.

$2^{a+b} = 2^c$

$a+b=c$

1 1 1

1 5 6

$2ac = 12$

$a \cdot c = 6$

1 1

1 6

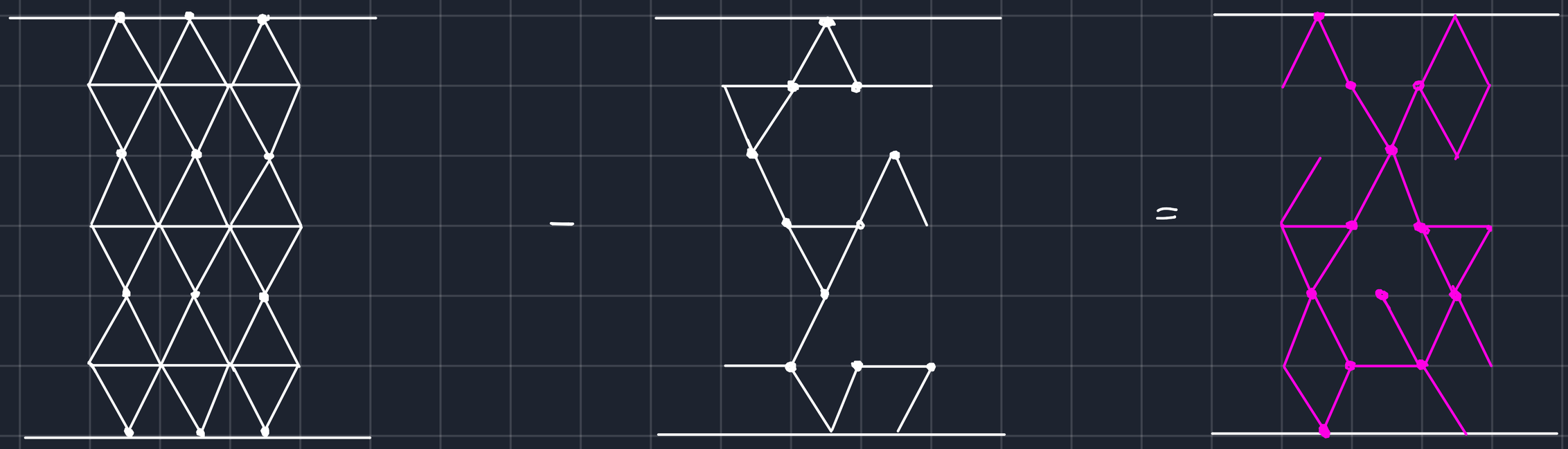
$ac+bc=36$

$c \cdot \underbrace{(a+b)}_{c} = 36$

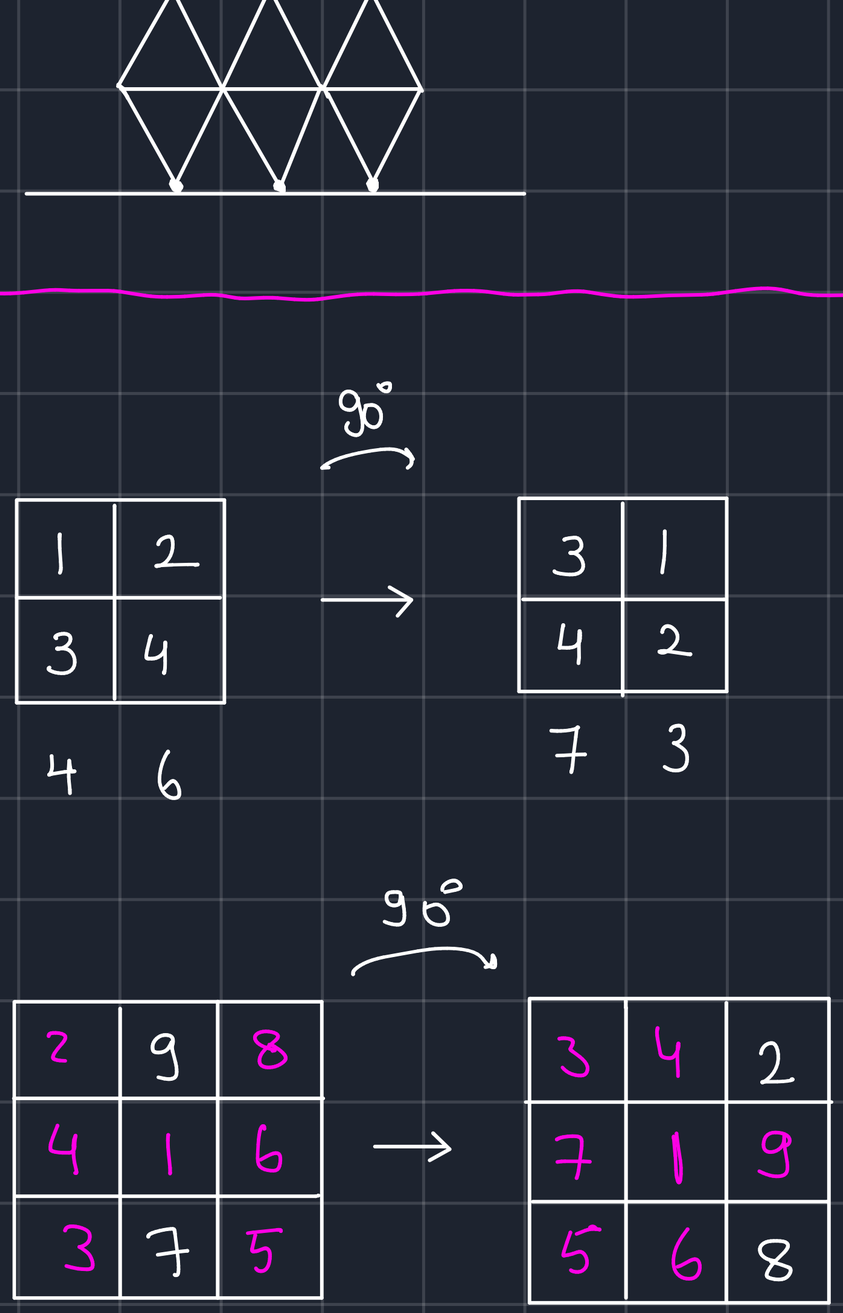
$c^2 = 36$ | $c=6$

$\rightarrow \frac{6}{5-1} = \boxed{\frac{3}{2}}$

11)

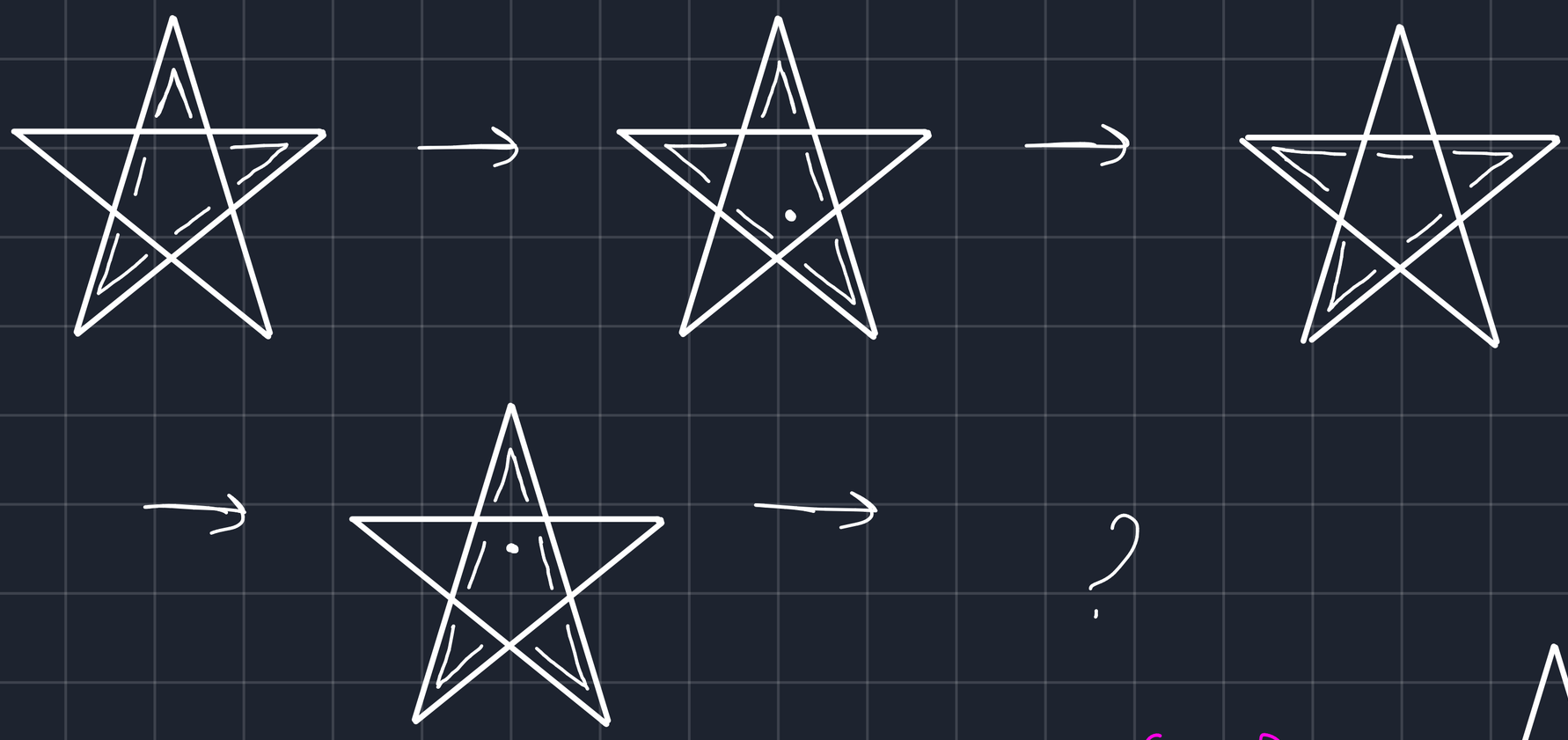


12)



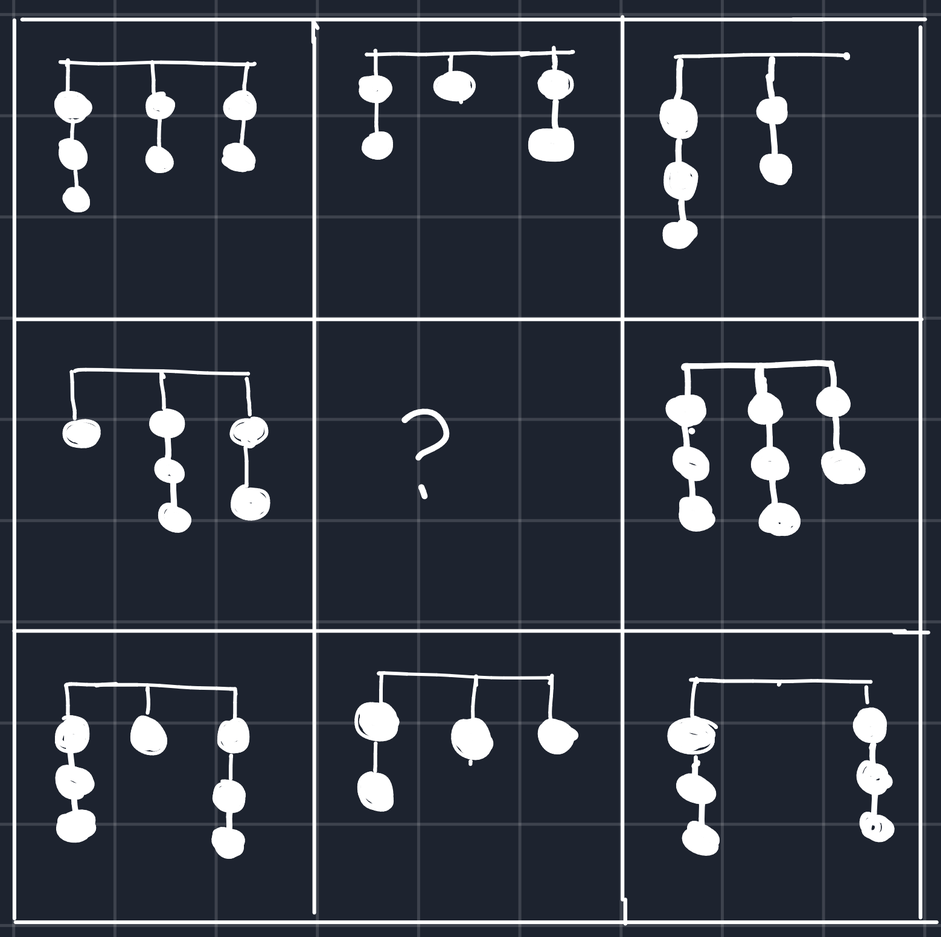
$$\frac{B+C}{A} = \frac{30}{15} = \boxed{2}$$

13)

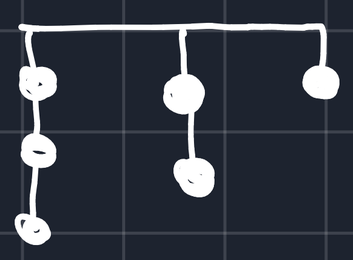


Ответ:

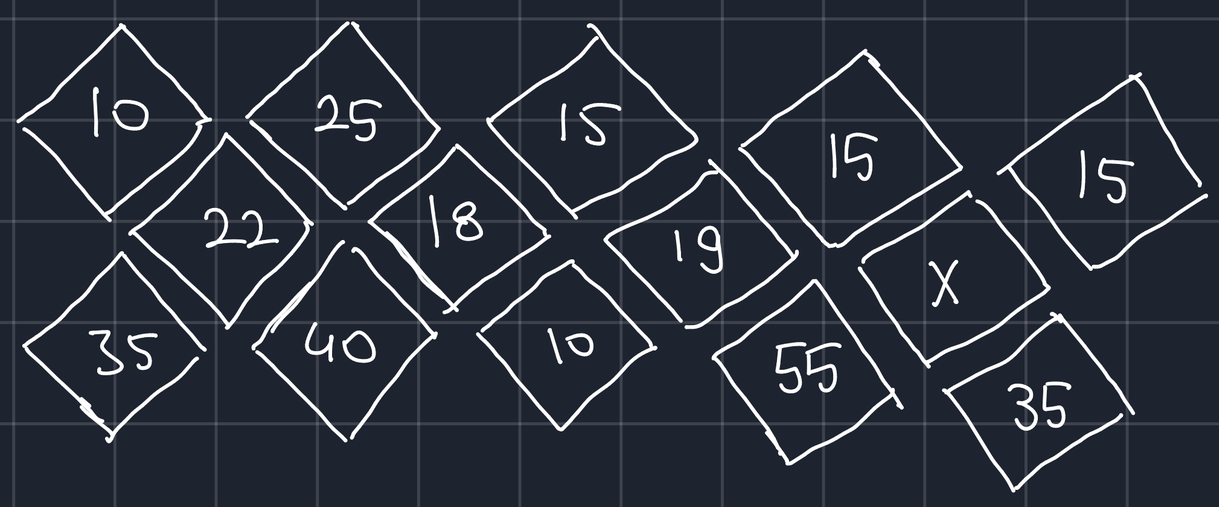
14)



Cevap:



15)



Çözüm: $\frac{15+15+55+35}{5} = 24 = X$

16)

→ ?

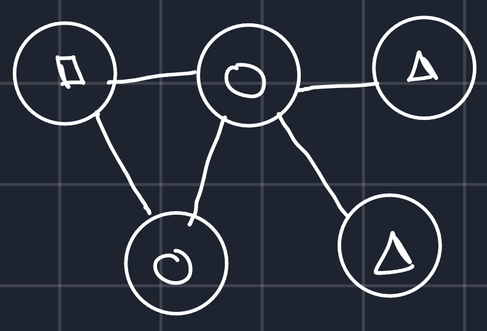
= Cevap

17)

$\rightarrow \left(2^{5}+2^{5}\right)-1^{2}$

$\rightarrow \left(3^{a}+2^{b}\right)-1^{c}$

$a+b+c = ?$



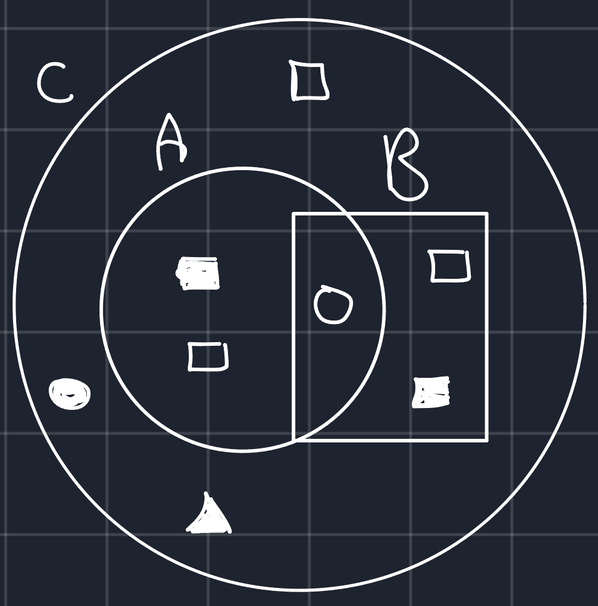
$\rightarrow \left(2^{2}+2^{6}\right)-1^{2}$

Çözüm: $a=7$

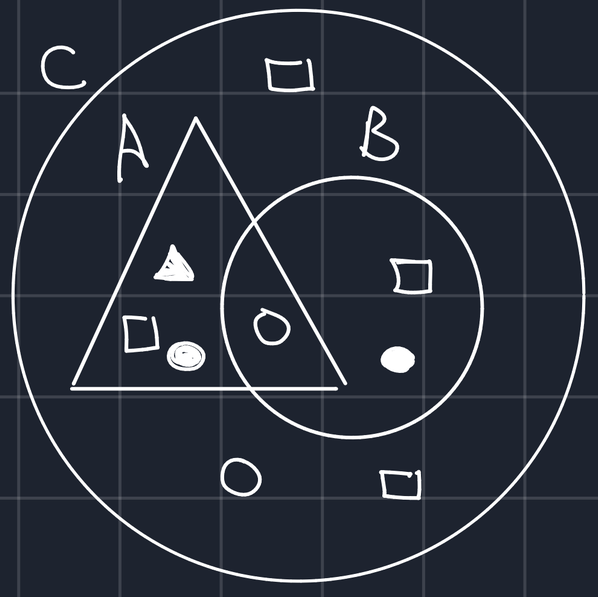
$b=3 \quad = 12$

$c=2$

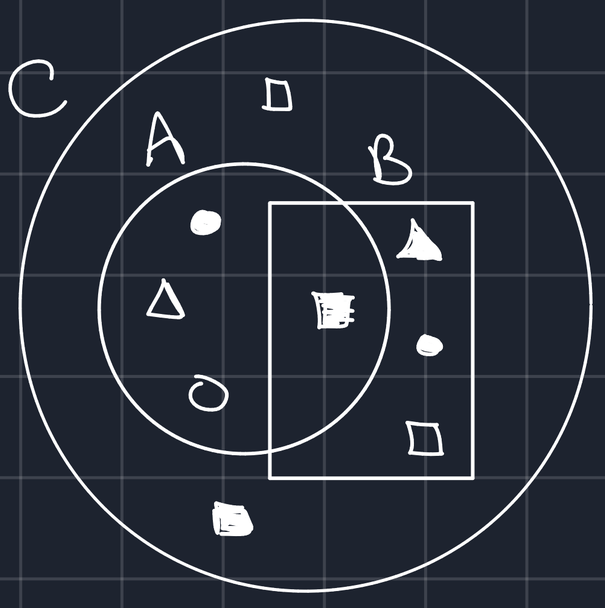
18)



→ 8, 3, 3, 1, 5



→ 10, 4, 3, 1, 6



→ ?, ?, ?, ?, ?

↓ ↓ ↓ ↓ ↘

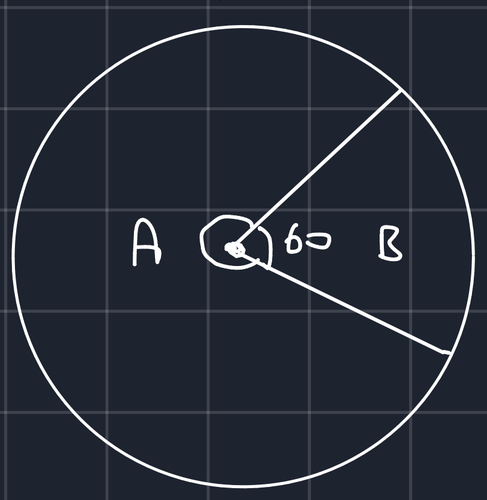
C A B A∩B A∪B

9, 4, 4, 1, 7

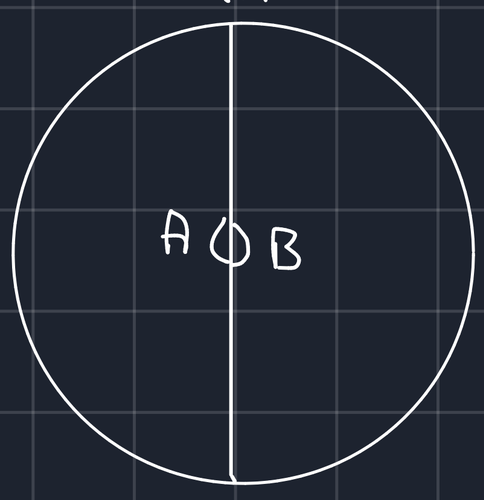
---

19)

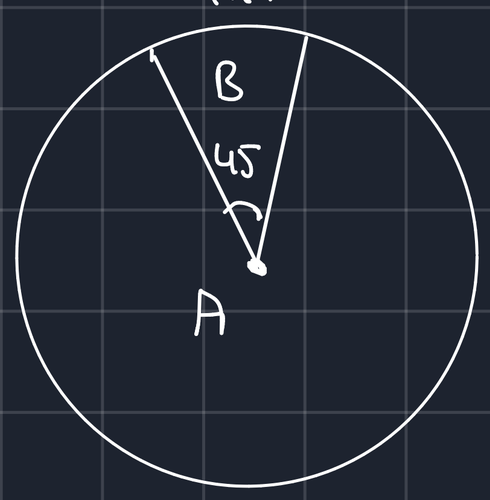
I



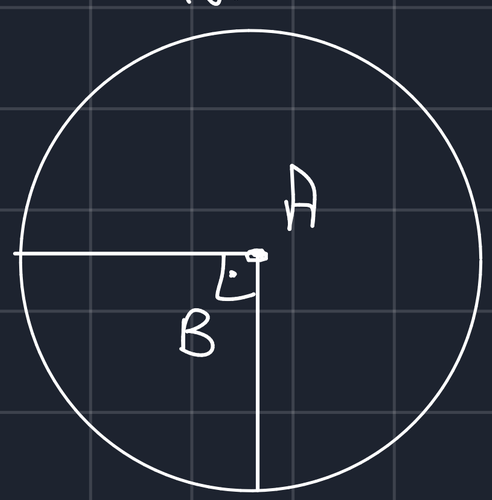
II.

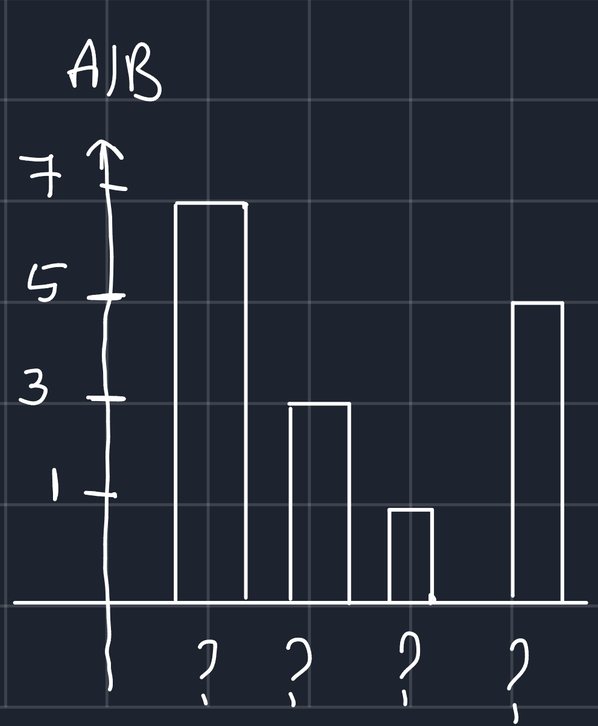


III.



IV.



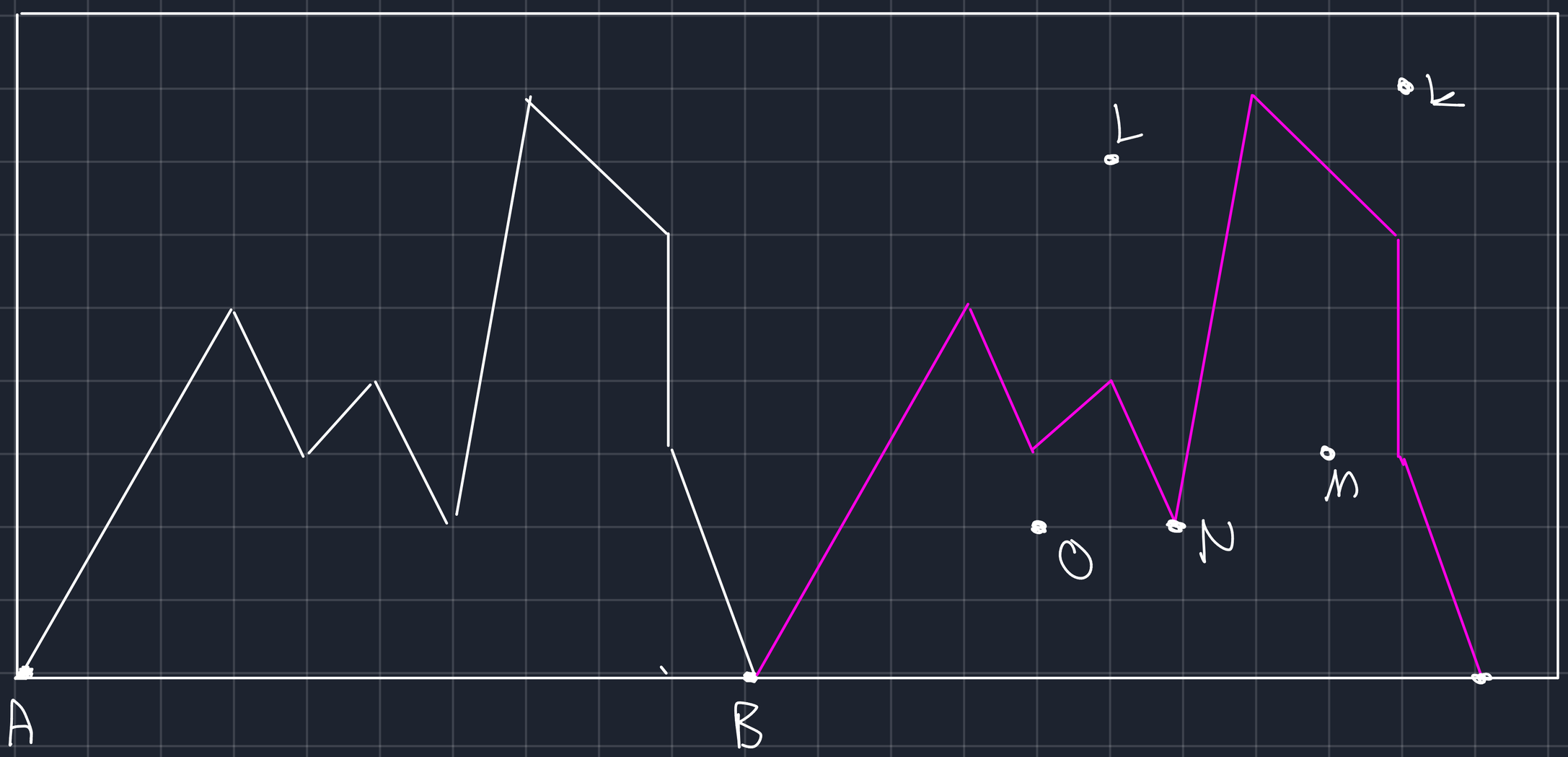


Çözüm: I. $\frac{300}{60} = 5$ II. $\frac{180}{180} = 1$

III. $\frac{315}{45} = 7$ IV. $\frac{270}{90} = 3$

III, IV, II, I → Cevap.

20)



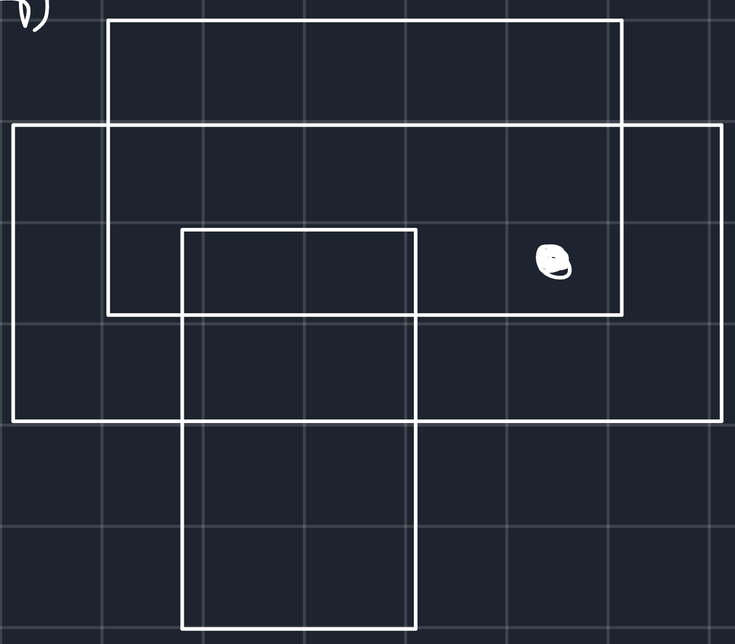
A'dan başlayıp B'de biten yol tekrarlanırsa yukardaki noktalardan hangisinden geçer?

A) L B) K C) M D) N E) O

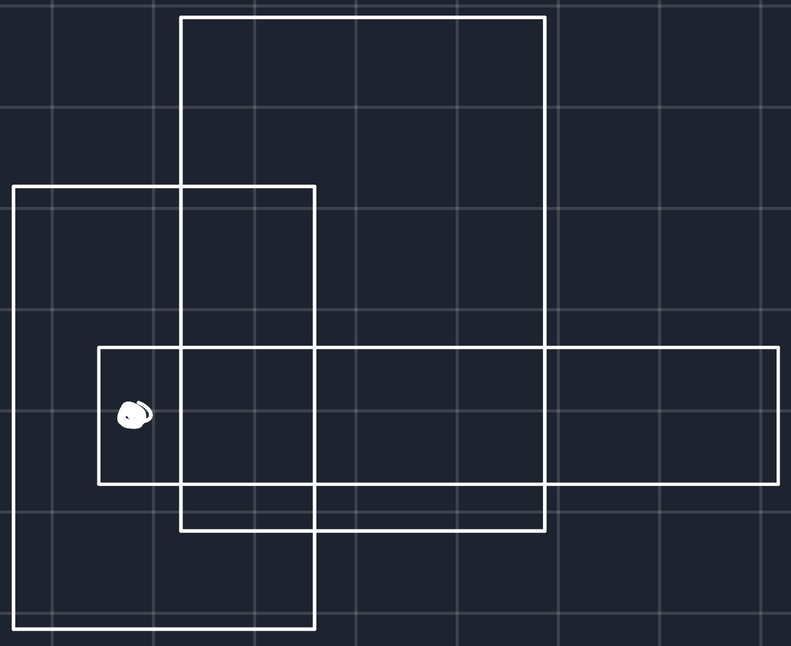
---

21) farklı şekli bulunuz.

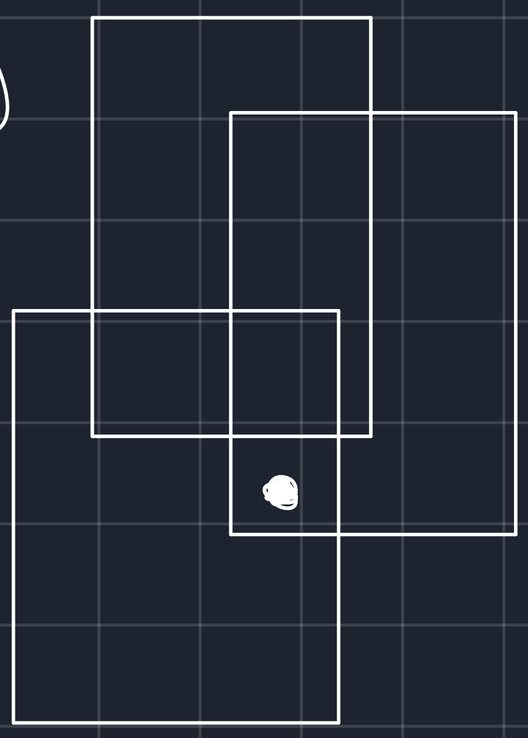
A)



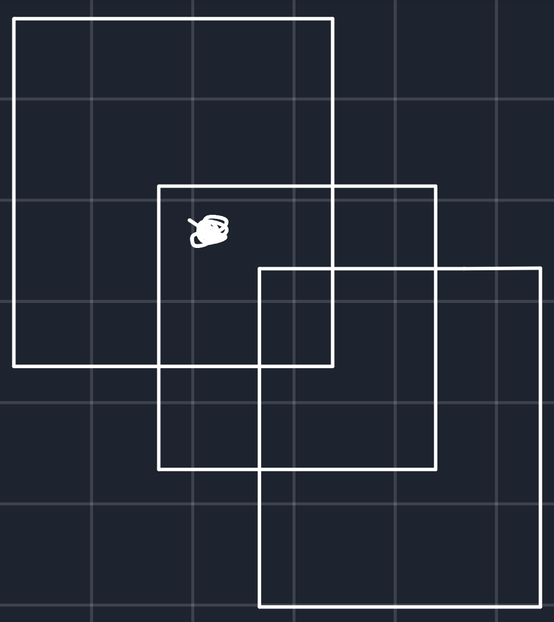
B)



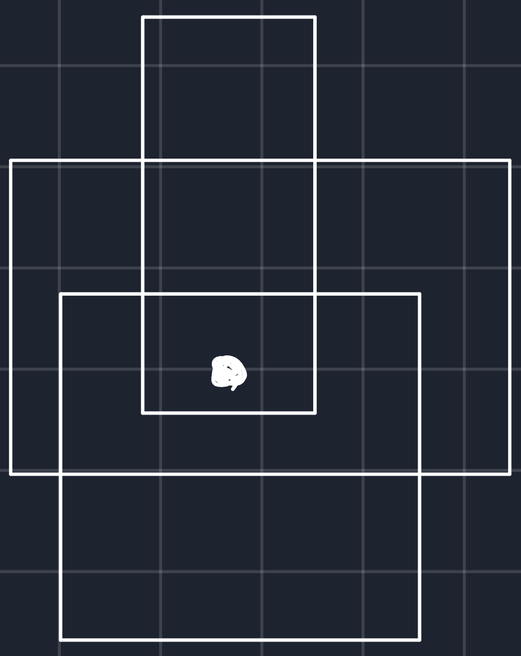
C)



D)

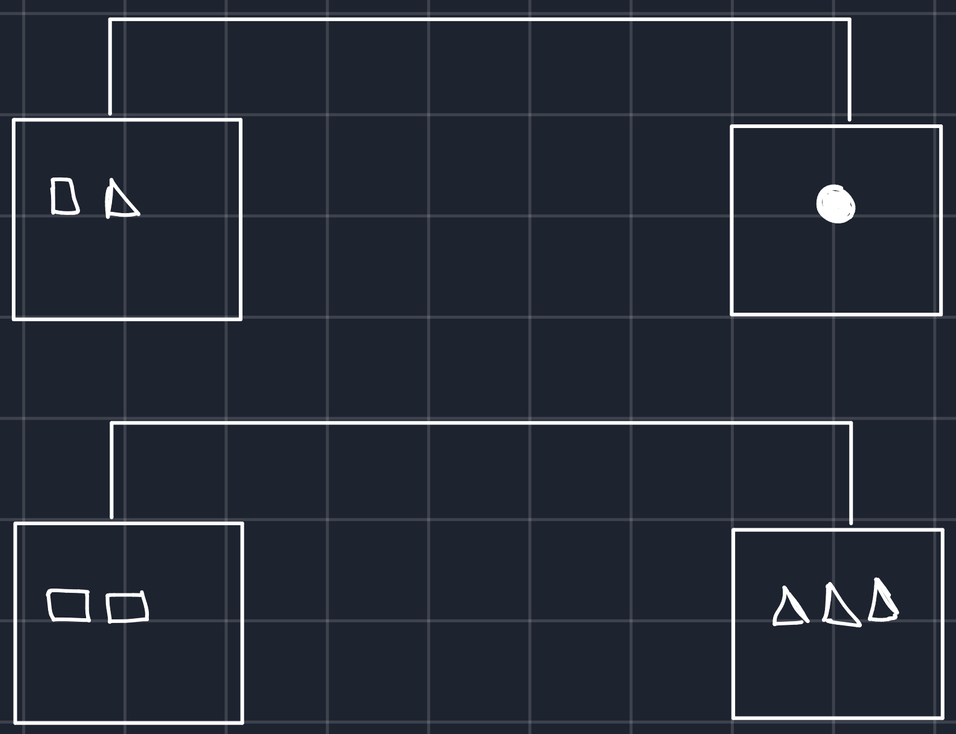


E)



Cevap E

22)



Çözüm:

□ = 3

△ = 2

● = 5

A) □ B) □□ C) □□□

D) □□□□ E) □□□□□

23) Aşağıdakilerden hangisi uymaz:

A)

B)

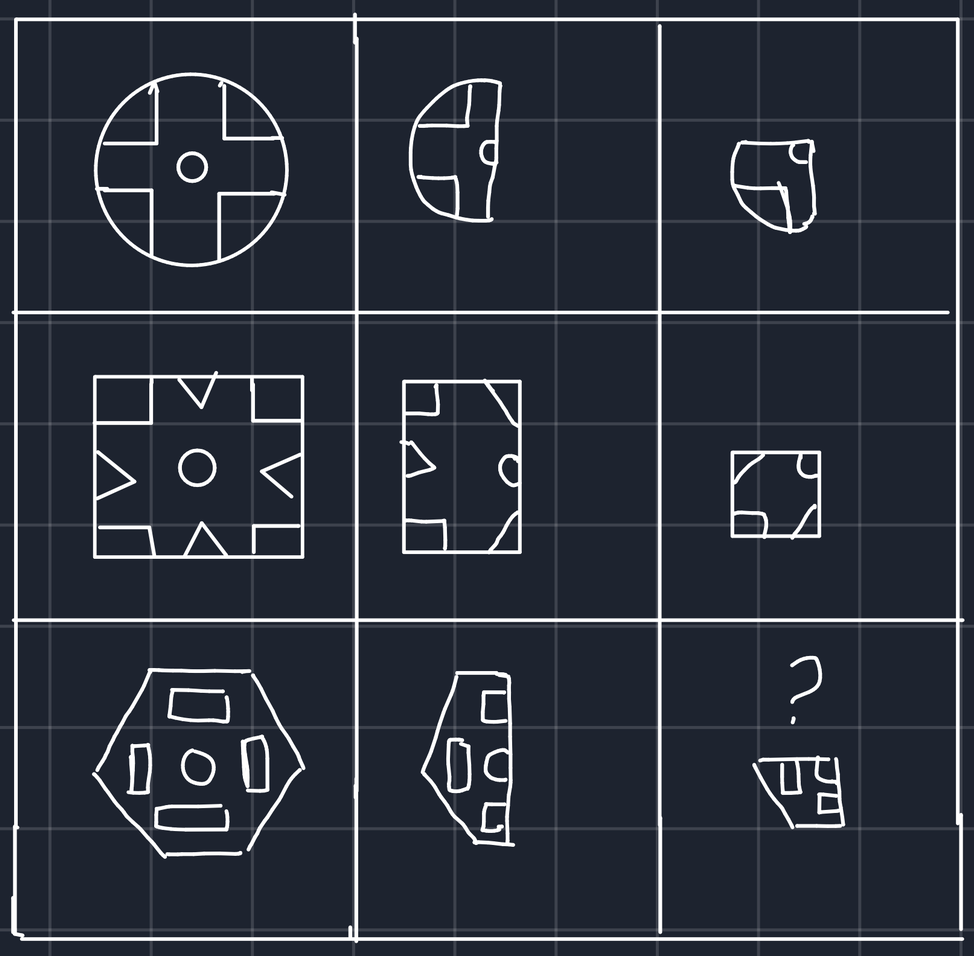
C)

D)

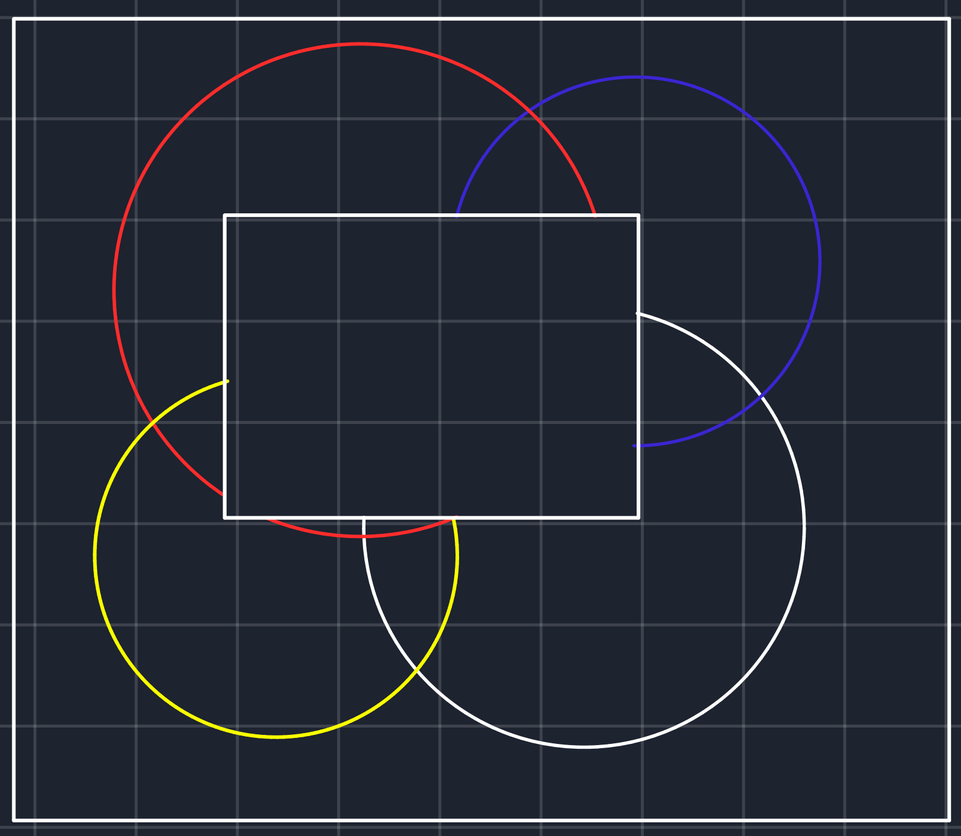
E)

Cevap : E

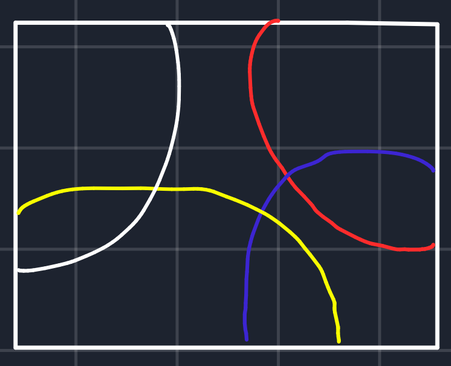
24)



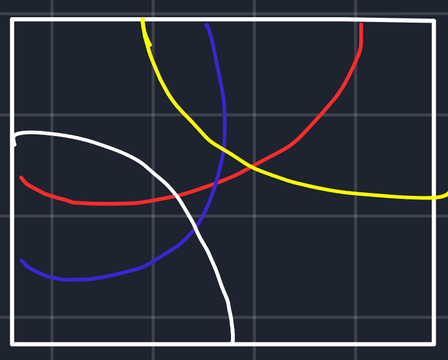
25)



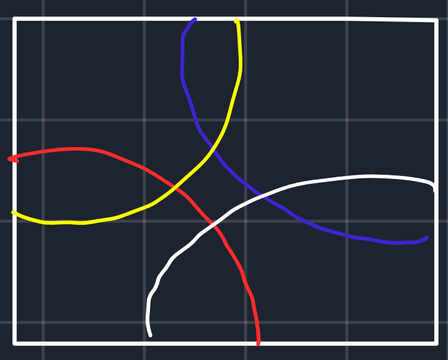
A)



B)

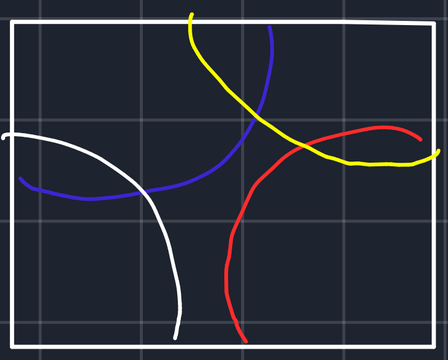


C)



D)

E)



Ответ: D

26)

A)

B)

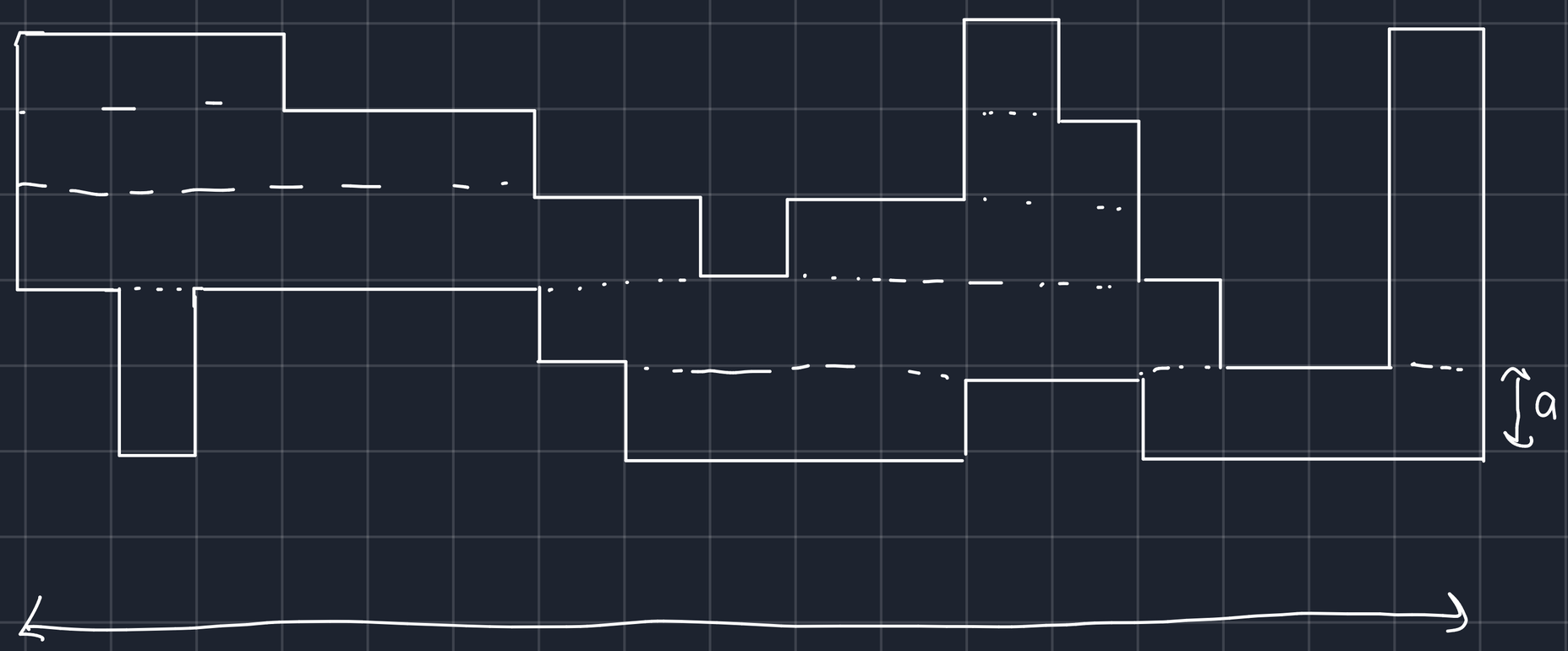
C)

D)

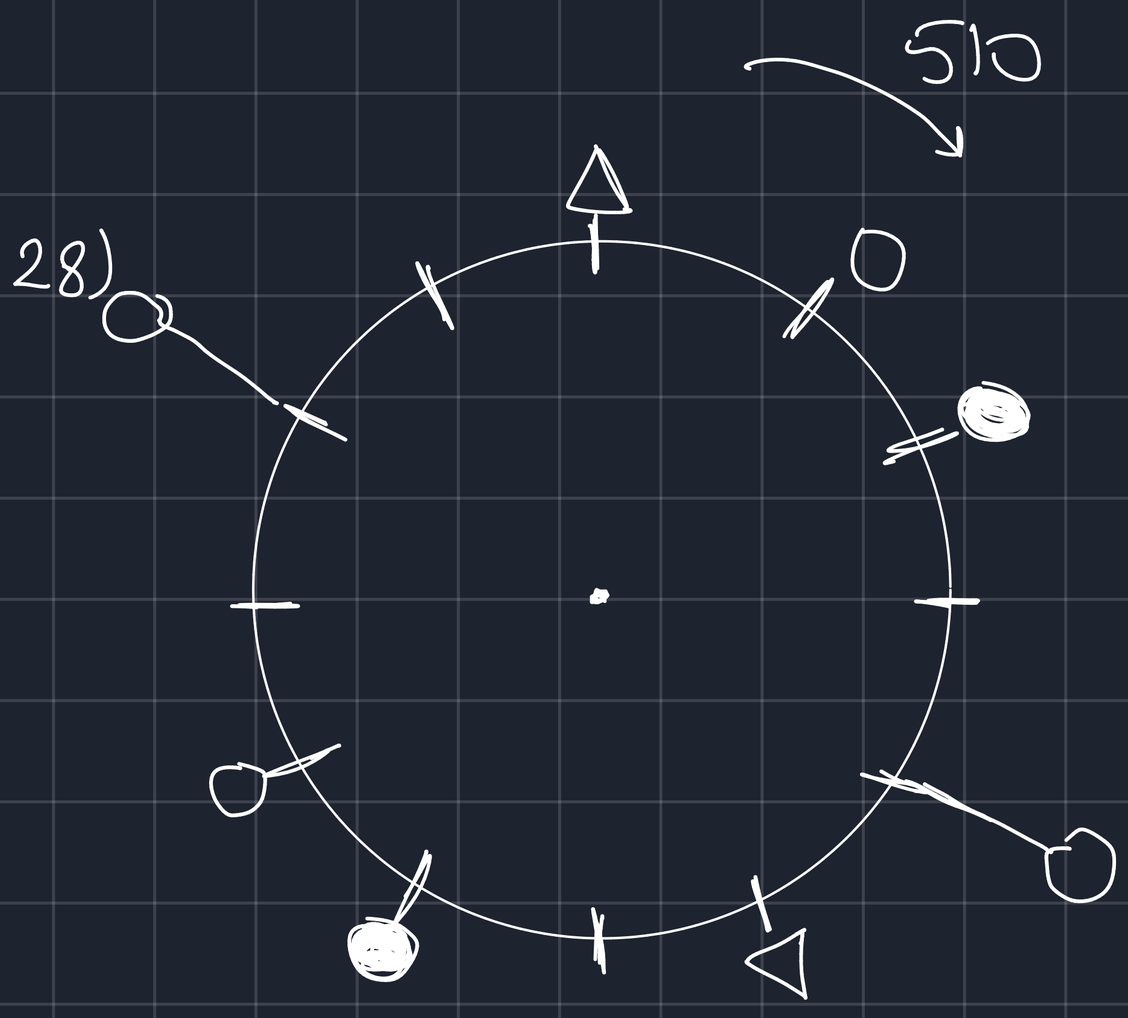
E)

Cevap: A

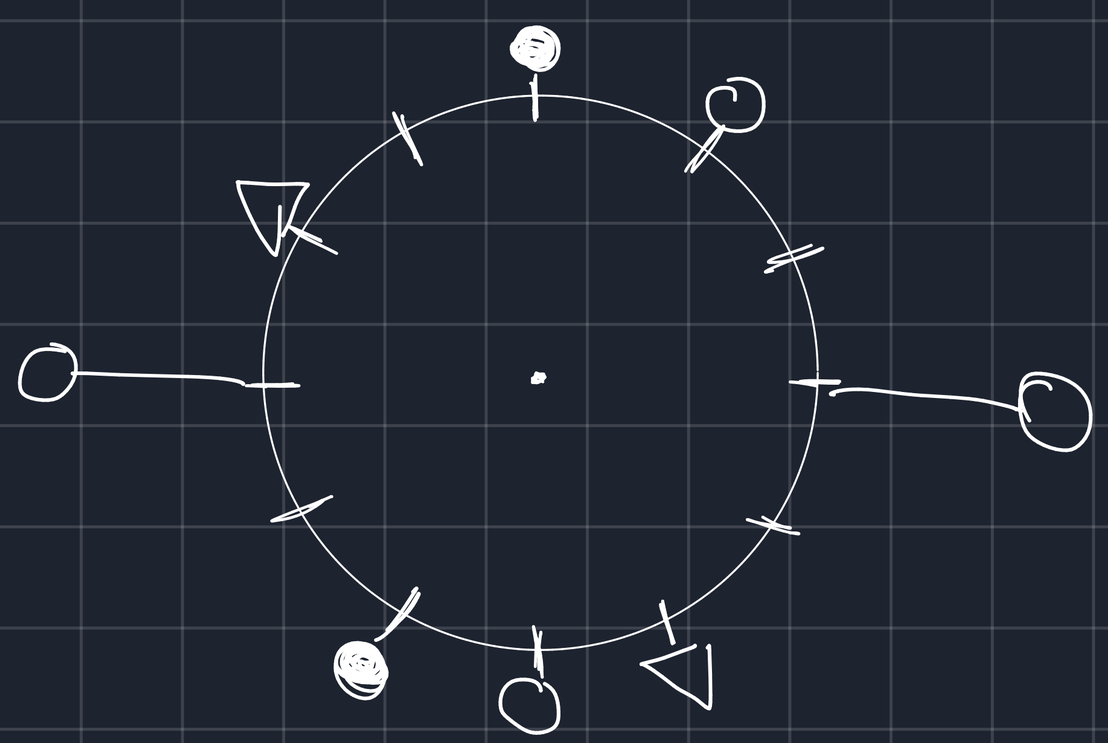
27)



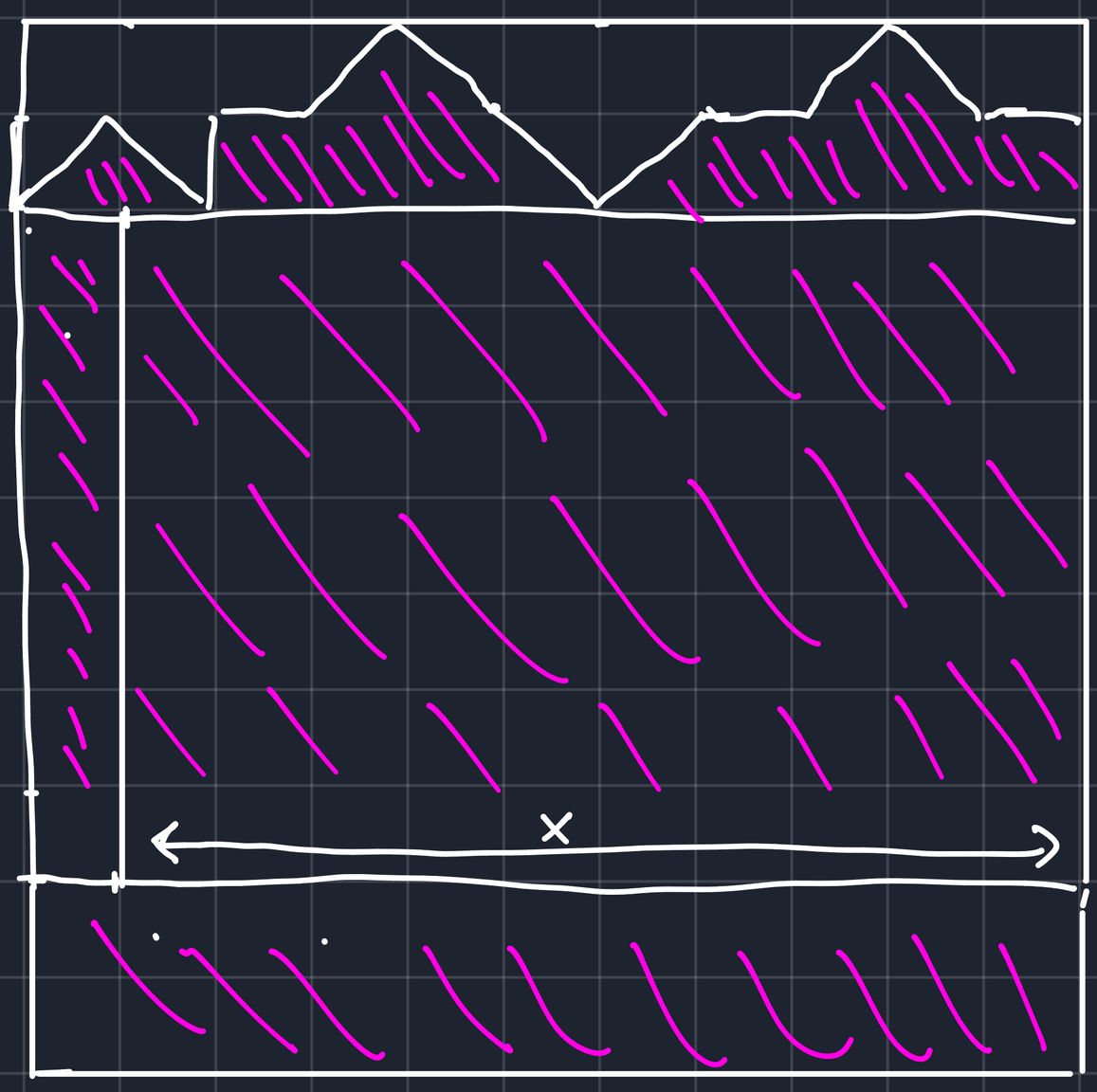
Geure kaç a'dır: 72+42=114.



Cevap:



29)



taralı alan 110cm²
olduğuna göre

x = ?

110 - 22 - 11 - 7 =

70 = 7 · x

x = 10

30)

↑ → ↓) (6 7 3

↑ ← ↓ 3 6 7

↓ → ← 6 3 5

↑ ↓ → 3 5 7

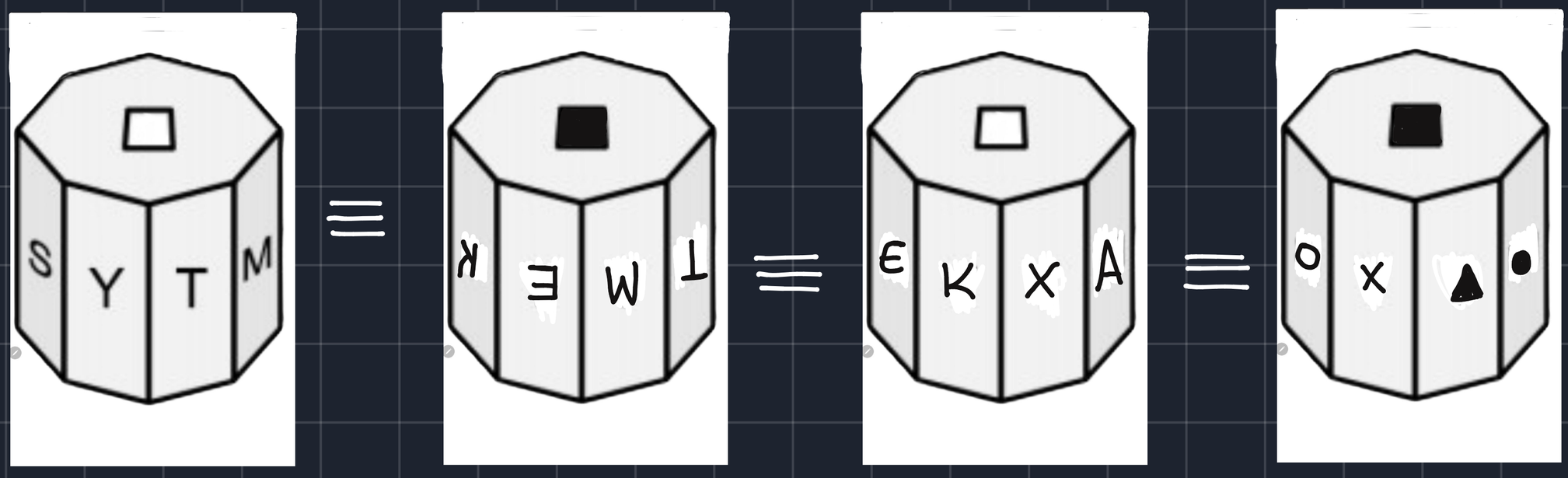
↓ ↑ ← 6 5 3

↑ ↓ → = ?

↑ = 6
↓ = 3
← = 7

635

31)



○ = ?

▲ = ?

● = ?

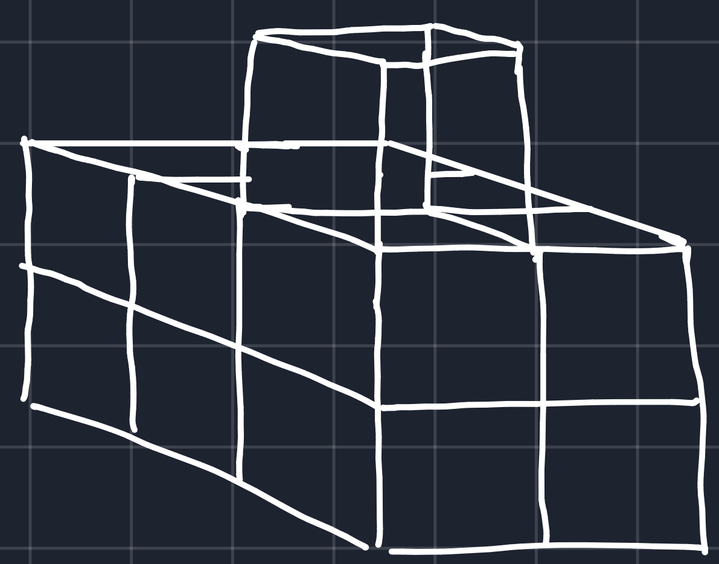
Cevap: ○ → A

▲ → K

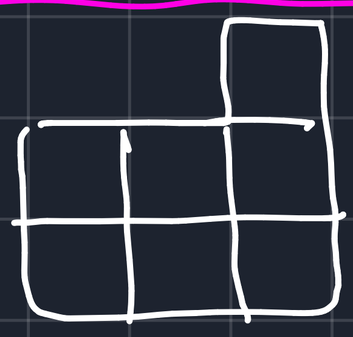
● → E

---

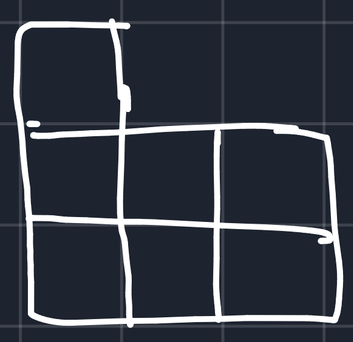
32)



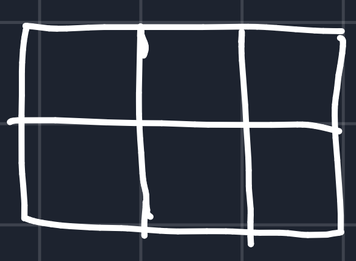
I.



II.

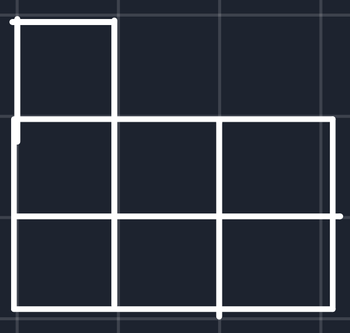


III.



buna göre.

I. sol

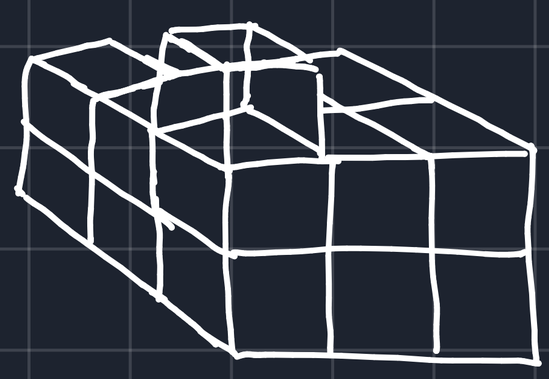


II. sağ

III. üst

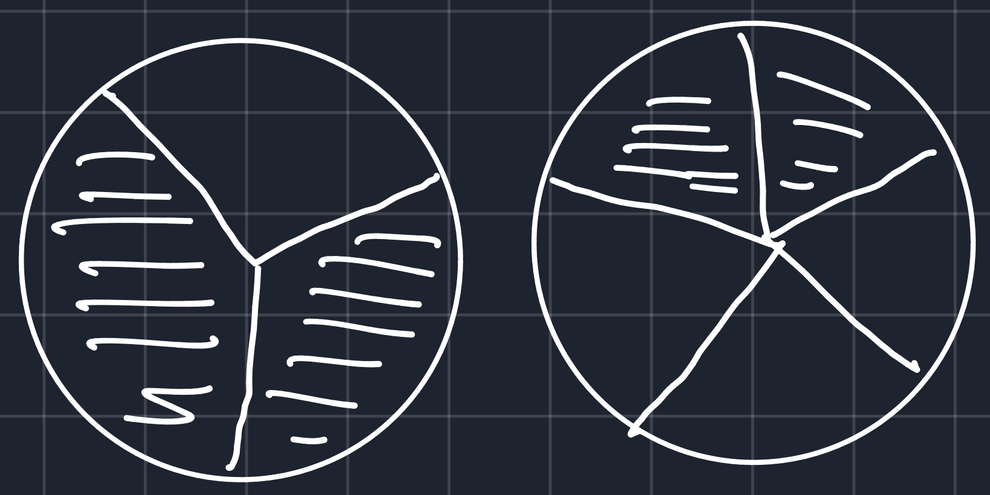
şekil nedir:

Cevap:

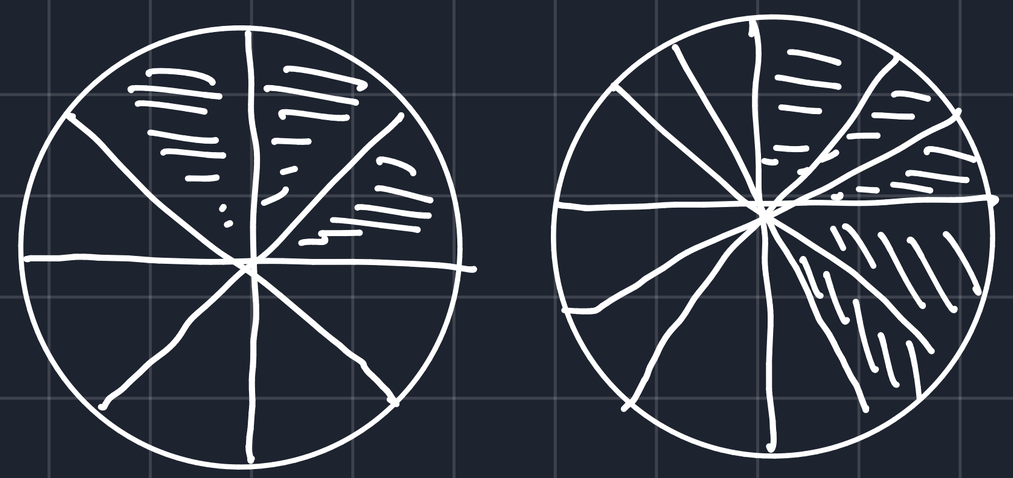


33)

16:24 →



9:25 →



20:42 →

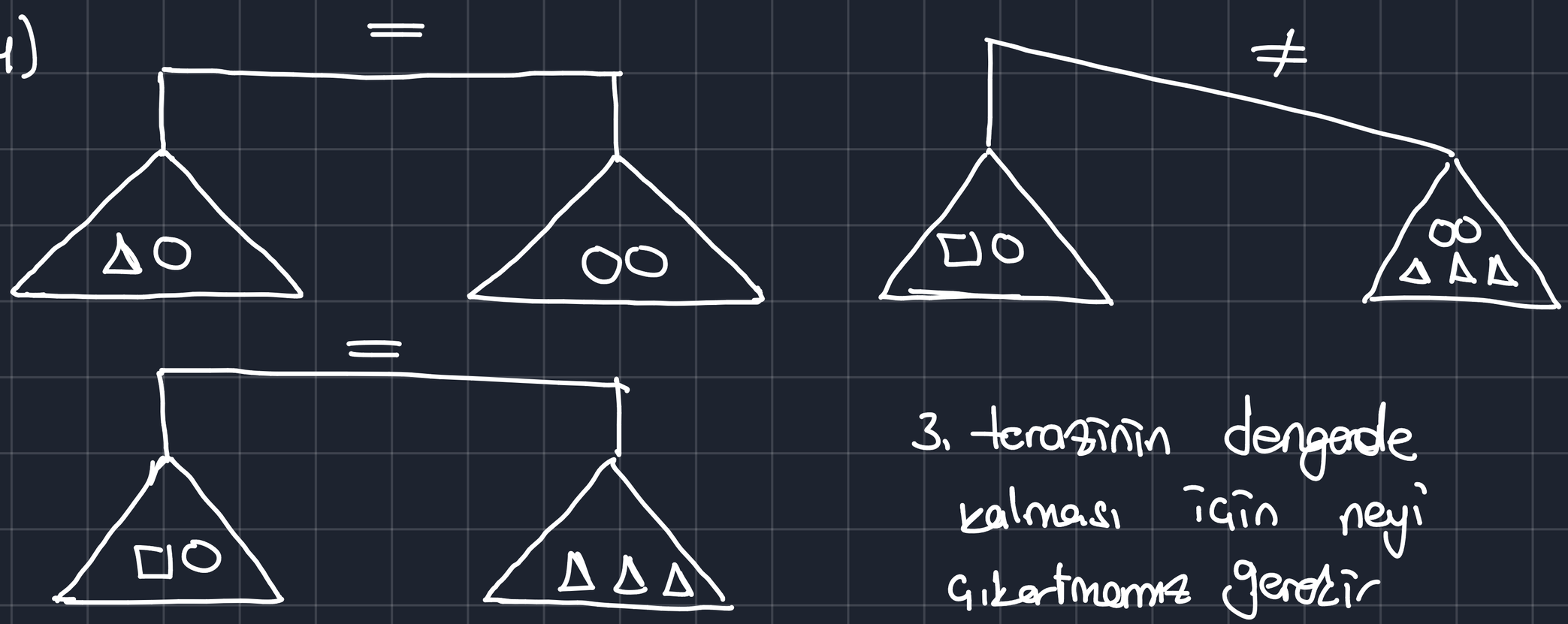
Cevap:

$\rightarrow \frac{20}{24}$

$\rightarrow \frac{42}{60}$

---

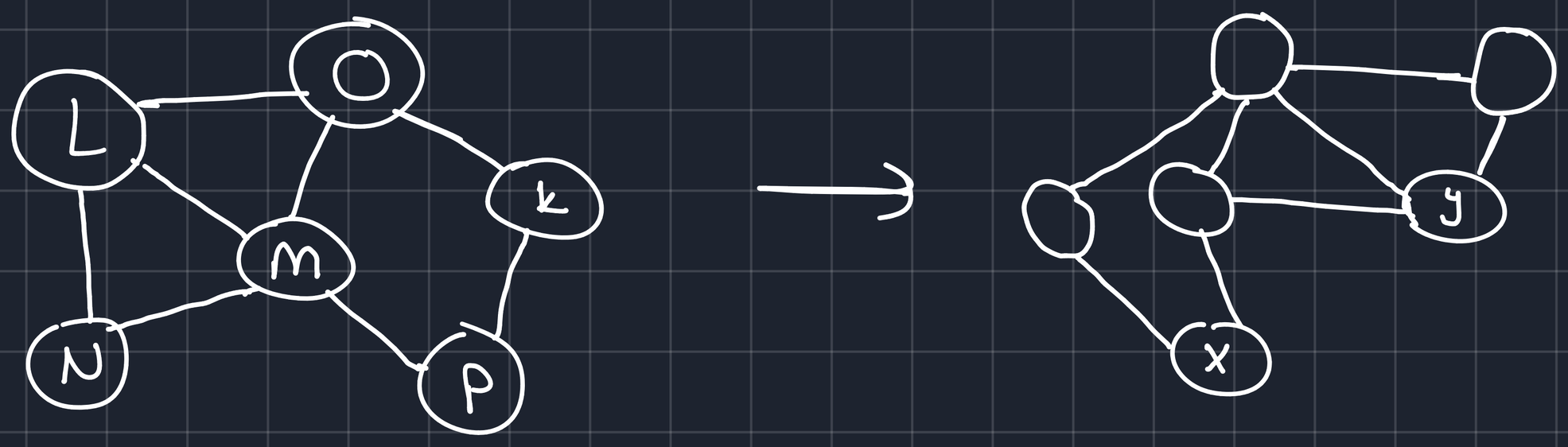
34)



3. terazinin dengede kalması için neyi çıkartmamız gerekir

cevap : △○

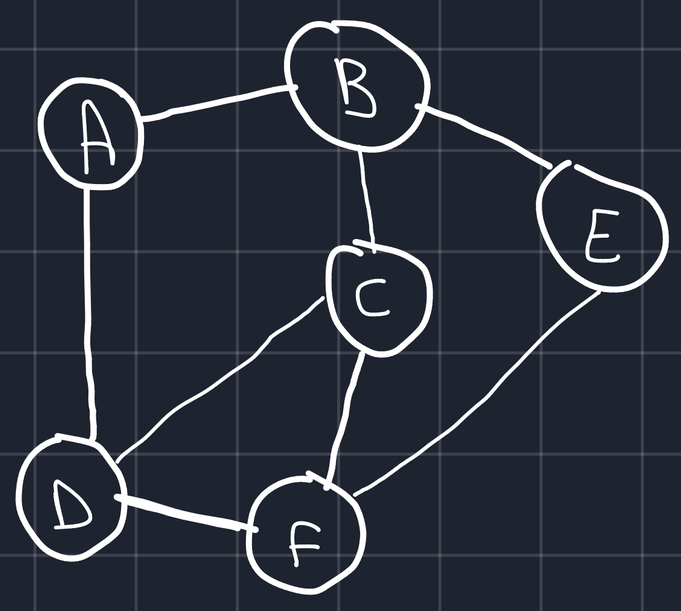
35)

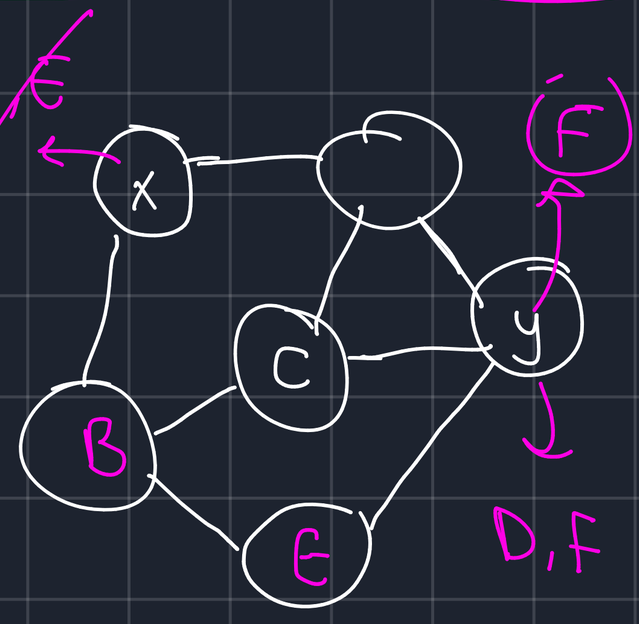


Ceuap: $x = k$, $y = L$

---

36)

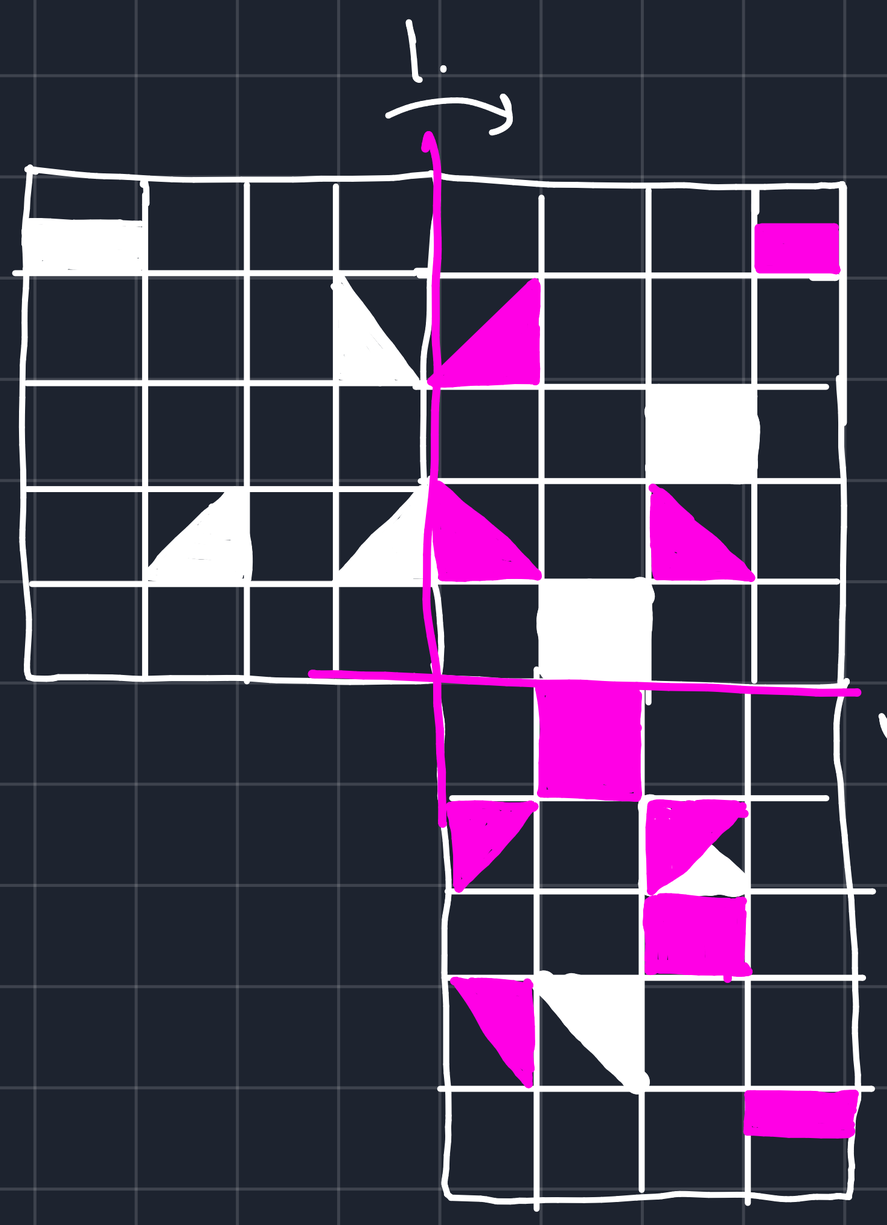




	x	y
A)	~~C~~	~~A~~
B)	E	~~C~~
C)	~~B~~	f
D)	~~F~~	D
E)	A	F

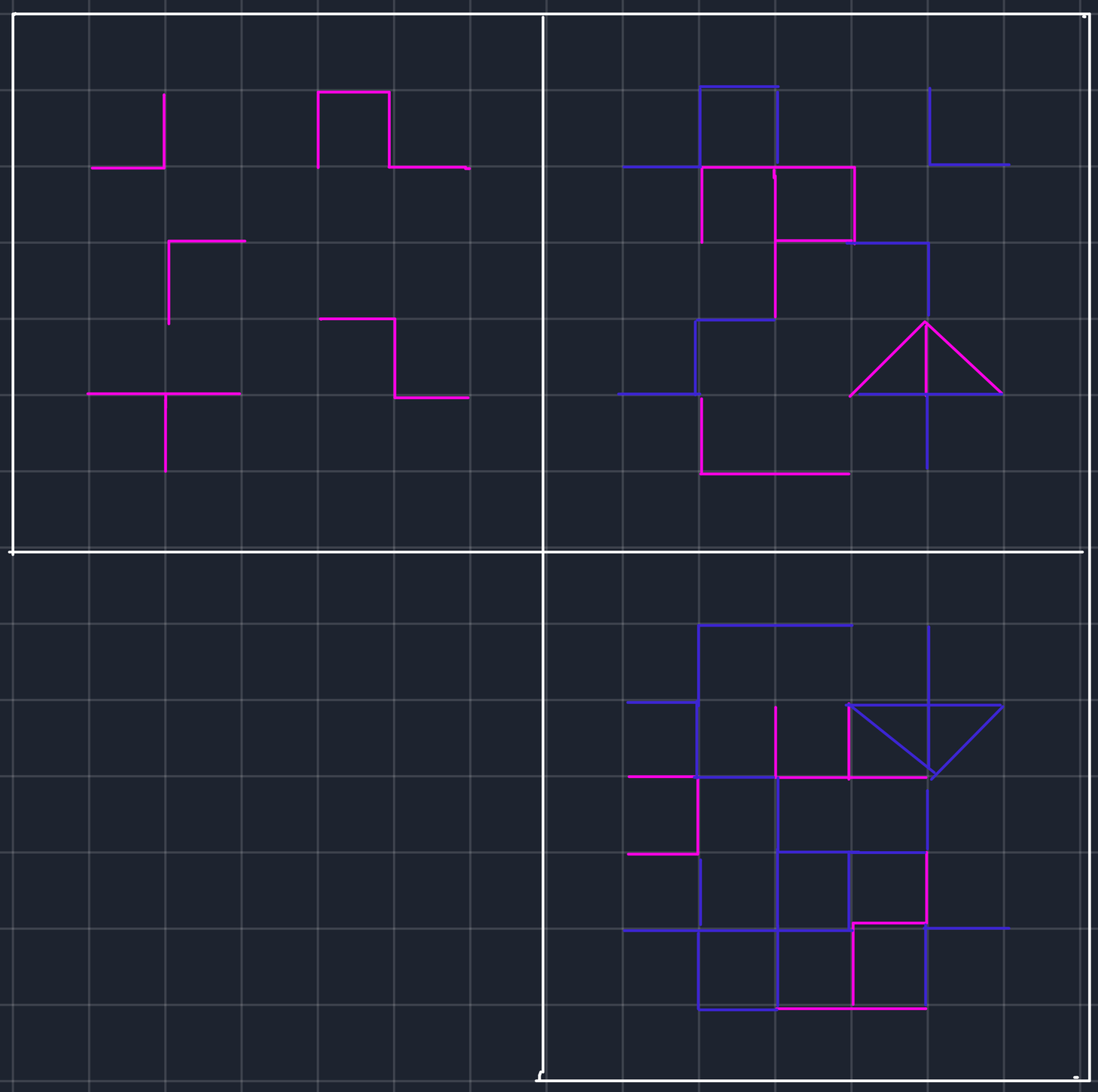
---

37)

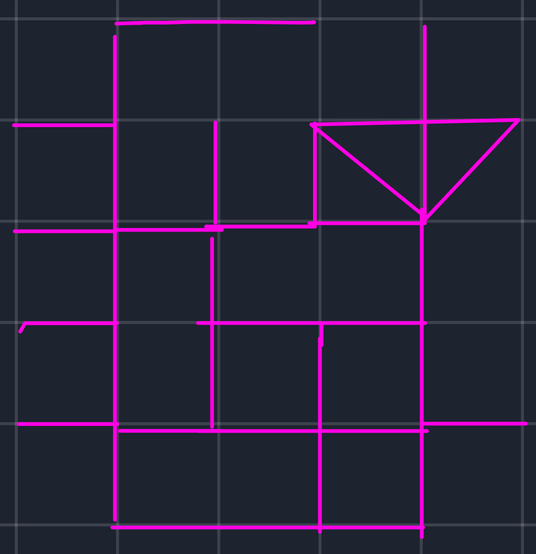


→ Ceuap

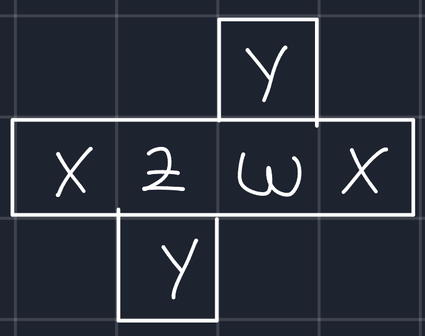
38)



Cevap:



39)



X, y, z ve ω birbirinden farklı şekil olmak üzere

X → □

z → ○

y → △

ω → ☆

40)

$$\begin{array}{cccc} T & E & M & A \\ C & A & M & E \\ M & \underline{L} & L & S \\ S & \underline{L} & L & A \end{array}$$

$$\begin{array}{cccc} T & E & M & A \\ 8 & 5 & 2 & y \to 7 \\ 2 & 1 & 3 & 4 \\ x & 3 & 1 & 7 \to A \\ 6 & 7 & z & 5 \\ C & A & M & E \end{array}$$

$x = 4 = 5$

$y = 7 = A$

$z = 2 = M$

$x + y + z = ?$ $\quad 4 + 7 + 2 = \underline{13}$

1) $\frac{1}{3} - \frac{4}{\frac{1}{2}-2} = ?$

ÇÖZÜM: $\frac{1}{3} - \frac{4}{\frac{-3}{2}} = \frac{1}{3} - \frac{-8}{3}$

$\frac{9}{3} = \boxed{3}$

---

2) $\frac{1}{\underset{(2)}{5x+2}} - \frac{3}{10x+4} = \frac{1}{12}$ $x = ?$

ÇÖZÜM: $\frac{2}{10x+4} - \frac{3}{10x+4} = \frac{1}{12}$

$\frac{-1}{10x+4} = \frac{1}{12}$

$10x+4 = -12$

$x = \frac{-16}{10} = \boxed{\frac{-8}{5}}$

---

3) $\frac{\frac{1}{12} \cdot \frac{4}{5}}{2+\frac{2}{5}} = ?$

ÇÖZÜM:

$\frac{\frac{1}{15}}{\frac{12}{5}} = \frac{1}{36}$

---

4) $2\sqrt{3}\left(\frac{\sqrt{18}+\sqrt{27}}{3+\sqrt{6}}\right) = ?$

ÇÖZÜM: $2\sqrt{3} \cdot \frac{3(\sqrt{2}+\sqrt{3})}{\sqrt{3}(\sqrt{3}+\sqrt{2})} = 2 \cdot 3 = \boxed{6}$

---

5) $\frac{\sqrt{75} \cdot \sqrt{12}}{\sqrt{98}-\sqrt{8}} = ?$

ÇÖZÜM: $\frac{5\sqrt{3} \cdot 2\sqrt{3}}{7\sqrt{2}-2\sqrt{2}} = \frac{5 \cdot 3 \cdot 2}{5\sqrt{2}} = 3\sqrt{2}$

---

6) $\frac{7!+8!}{5!(3!+5!)} = ?$

ÇÖZÜM: $\frac{7!(1+8)}{5! \cdot 3!(1+4 \cdot 5)} = \frac{7! \cdot 9}{5! \cdot 6 \cdot 7} = 3$

---

7) $\frac{8^2 \cdot 12^6}{4^4 \cdot 9^3 \cdot 16^2} = ?$

ÇÖZÜM: $\frac{2^6 \cdot 2^{12} \cdot 3^6}{2^8 \cdot 3^6 \cdot 2^8} = 2^2 = 4$

---

8) $1 + \frac{4}{1+\sqrt{x}} = \sqrt{x}$ $x = ?$

ÇÖZÜM: $\frac{\sqrt{x}+1+4}{\sqrt{x}+1} = \sqrt{x}$

$\sqrt{x}+5 = x+\sqrt{x}$

$5 = x$

---

9) $\frac{(x+3)^2+x+1}{x^2-4} \cdot \frac{x^2+3x-10}{x+5}$ ÇÖZÜM: $\frac{(x+5)(x+2)}{(x-2)(x+2)} \cdot \frac{(x+5)(x-2)}{(x+5)} = x+5$

10) $\frac{4\cdot 9^2 - 4^2\cdot 9}{2^2\cdot 3^3 + 2^3\cdot 3^2} = ?$ ÇÖZÜM: $\frac{4\cdot 9(9-4)}{2^2 3^2(3+2)} = \frac{5}{5} = \boxed{1}$

---

11) $4^{x+1}\cdot 12^{1-x} = 6$ ÇÖZÜM: $4^x\cdot 4\cdot 4^{-x}\cdot 3^{-x}\cdot 12^2 = 6$

$3^x = 8$

$9^x = ?$ $3^{2x} = \boxed{64}$

---

12) $(a-b)! = 1$ ÇÖZÜM: $a=b \rightarrow$ olmaz

veya $\boxed{a=b+1}$

$\frac{a!}{b!} + \frac{b!}{a!} = \frac{50}{7}$

$\frac{(b+1)!}{b!} + \frac{b!}{(b+1)!} = \frac{50}{7}$

$a\cdot b = ?$

$7\cdot 6 = \boxed{42}$

$b+1+\frac{1}{b+1} = \frac{(b+1)^2+1}{b+1} = \frac{50}{7}$

$b=6 \quad a=7$

---

13) $x<y<0$ ÇÖZÜM: $\frac{|x-y|}{|y|} = 2$

$\left|\frac{x}{y} - 1\right| = 2$ $\frac{y-x}{-y} = 2$ $x = 3y$

$|x-y+1| = 7$ $x\cdot y = ?$

$|3y-y+1| = 7$

~~$2y+1 = 7$~~

$2y+1 = -7$

$y = -4 \quad x = -12$

$-4\cdot -12 = \boxed{48}$

---

14) $x, y \in Z$ ÇÖZÜM: $2 < \frac{x+2}{2} < 3$ $3 < y-\frac{x}{3} < 5$

$6 < y < 8$

$2 < \frac{x+2}{2} < 3 < y-x < 5$

$2 < x < 4$

$x = 3$ $y = 7$

$x+y = ?$ $3+7 = \boxed{10}$

15) $||x+5|+y| = y$

$||1+|2-y|| = 7$

$x+y = ?$

GÖZÜM:

$1+|2-y| = 7 \rightarrow |2-y| = 6$

~~$1+|2-y| = -7$~~

~~$y = -4$~~, $y = 8$

$y = 8 \qquad x = -5$

$8 + -5 = \boxed{3}$

---

16) $\overset{+}{a} \cdot \overset{-}{b} < 0 < \underset{3}{a} - \underset{-1}{b} < \underset{4}{c} + \underset{-1}{b}$

$? < ? < ?$

GÖZÜM:

$0 < a - b$

$\underline{b < a}$
$- \quad +$

$a < c$

$b < a < c$

---

17) $\begin{array}{r|l} ABA & A \\ \hline & 109 \\ \hline 2 & \end{array}$

x, y, z, A, B birbirinden farklı birer rakam

$\begin{array}{r} BA \\ \times \quad B \\ \hline xyz \end{array}$

$x+y+z = ?$

GÖZÜM:

$\log a + 2 = \log a + \log b$

$8a + 2 = 10b$

$\downarrow 2 \qquad \downarrow 5$

$8 \qquad 5$

$\begin{array}{r} 56 \\ \times \quad 5 \\ \hline 280 \end{array}$

$2+8+0 = \boxed{10}$

---

18) $(a+2b)^2 = 8ab$

$3a - 4b = 3$

$a \cdot b = ?$

GÖZÜM:

$a^2 + 4ab + 4b^2 = 8ab$

$(a-2b)^2 = 0$

$a = 2b$

$3a - 4b = 3$

$\downarrow 6b$

$b = \frac{3}{2} \qquad a = 3$

$3 \cdot \frac{3}{2} = \boxed{\frac{9}{2}}$

---

19) $\sqrt{a} - \sqrt{b} = \sqrt{c+4}$

$\sqrt{a} + \sqrt{b} = \sqrt{c+8}$

$\sqrt{ab} = \sqrt{c}$

GÖZÜM

$a + b - 2\sqrt{ab} = c + 4$

$\sqrt{c}$

$\downarrow \quad a+b = c + 2\sqrt{c} + 4$

$a + b + 2\sqrt{ab} = c + 8$

$\downarrow \quad a+b = c - 2\sqrt{c} + 8$

$\cancel{c} - 2\sqrt{c} + 8 = \cancel{c} + 2\sqrt{c} + 4$

$4 = 4\sqrt{c}$

$c = 1$

$a + b = 1 - 2 + 8 = \boxed{7}$

20) $2^9 * \sqrt{b} = a^2 + ab$ ÇÖZÜM: $a=6$, $b=9$

$64 * 3 = ?$

$6^2 + 6 \cdot 9 = 36 + 54 = 90$

---

21) $2xz + 3yz = 0$

$5xy - 2xz = 0$

$x + y - z = 12$

$z = ?$

ÇÖZÜM: $2xz = -3yz$

$2x = -3y$

$5y = 2z$

$-10x = 15y = 6z$

$6k \quad -4k \quad -10k$

$12k = 12 \quad k = 1$

$-10 \cdot 1 = \boxed{z = -10}$

---

22) $f(x+3) - f(x+1) = x^2 + a$

$f(4) - f(0) = 7$

$a = ?$

ÇÖZÜM: $x = 1 \rightarrow f(4) - f(2) = 1 + a$

$x = -1 \quad f(2) - f(0) = 1 + a$ +

$f(4) - f(0) = 2 + 2a$

$7 = 2 + 2a$

$\boxed{a = \frac{5}{2}}$

---

23) $f(9x - a) = 10a - 81x$

$f(-1) = 14$

$a = ?$

ÇÖZÜM: $9x - a = -1$

$x = \frac{a-1}{9}$

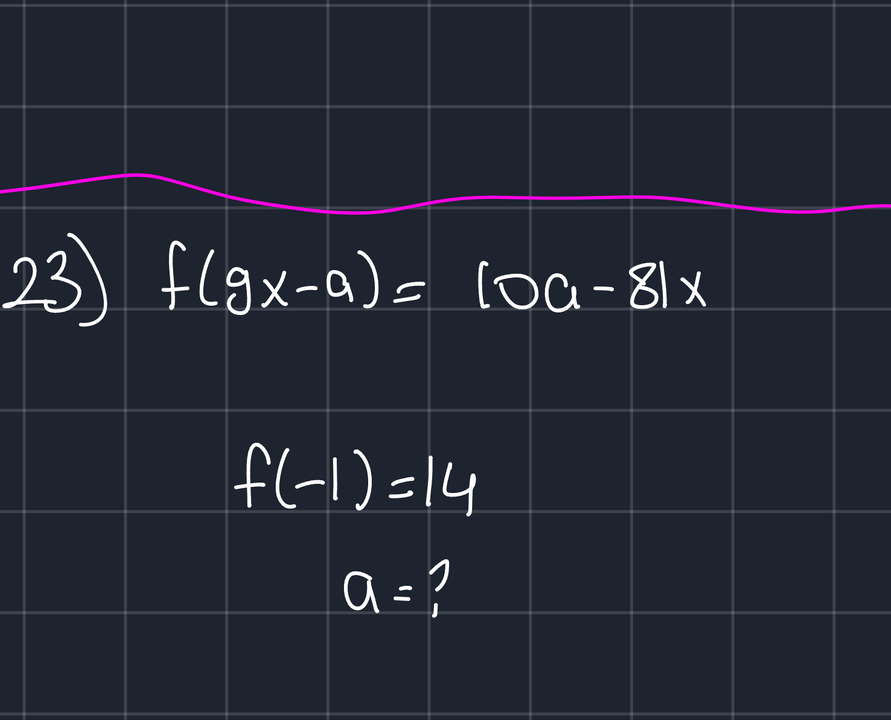
$10a - 81 \cdot \frac{a-1}{9} = 14$

$10a - 9a + 9 = 14$

$\boxed{a = 5}$

---

24) $a, b, c \in \mathbb{R}$



$g(x) = ax^2 + bx + c$

ÇÖZÜM:

$f(0) + g(0) = 3$

$f(0) - g(0) = 1$

$g(0) = 0$

$0 + 0 + c = 0$

$c = 0$

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

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

$g(2) = 0$

$4a + 2b = 0$

$4a = -2b$

$-2a = b$

$\frac{1}{k} \quad \frac{1}{-2k}$

$\frac{a}{b} = ? \frac{k}{-2k}$ $\boxed{-\frac{1}{2}}$

25) $P(x) = ax^2 + x + b$

$P(x) = (x-1) \cdot q(x) + 5$

$Q(0) = 5$

$a.b = ?$

GÖZÜM:

$P(1) = 5$

$a + 1 + b = 5$

$a + b = 4$

$2 \quad 2$

$P(0) = -q(0) + 5$

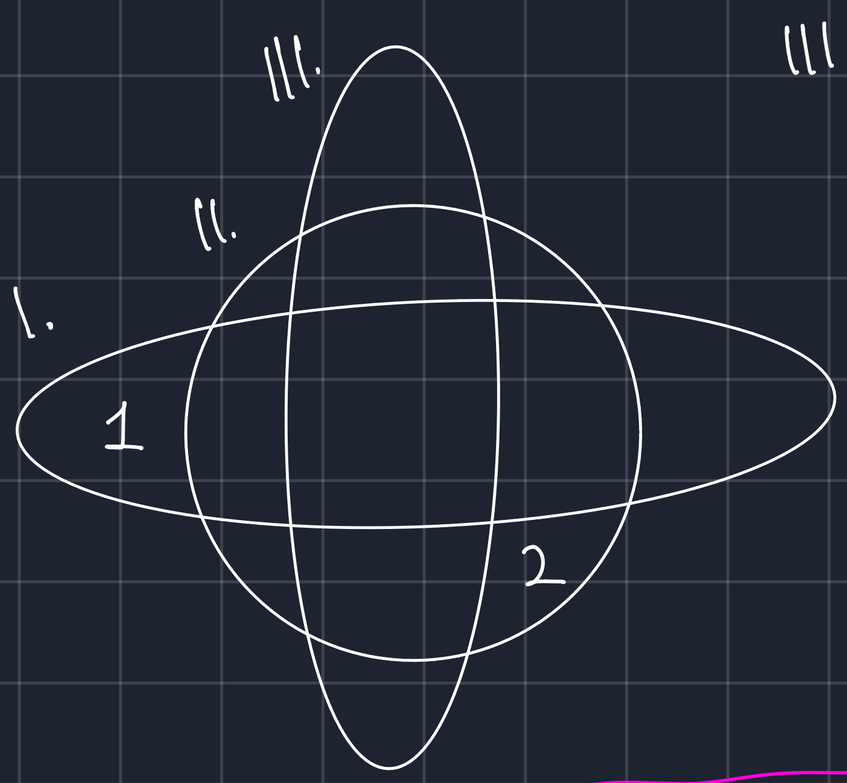
$P(0) = 2$

$b = 2$

$2.2 = \boxed{4}$

26) $1 \notin B$

$2 \notin A \cup B$



I. ? → a

II. ? → c

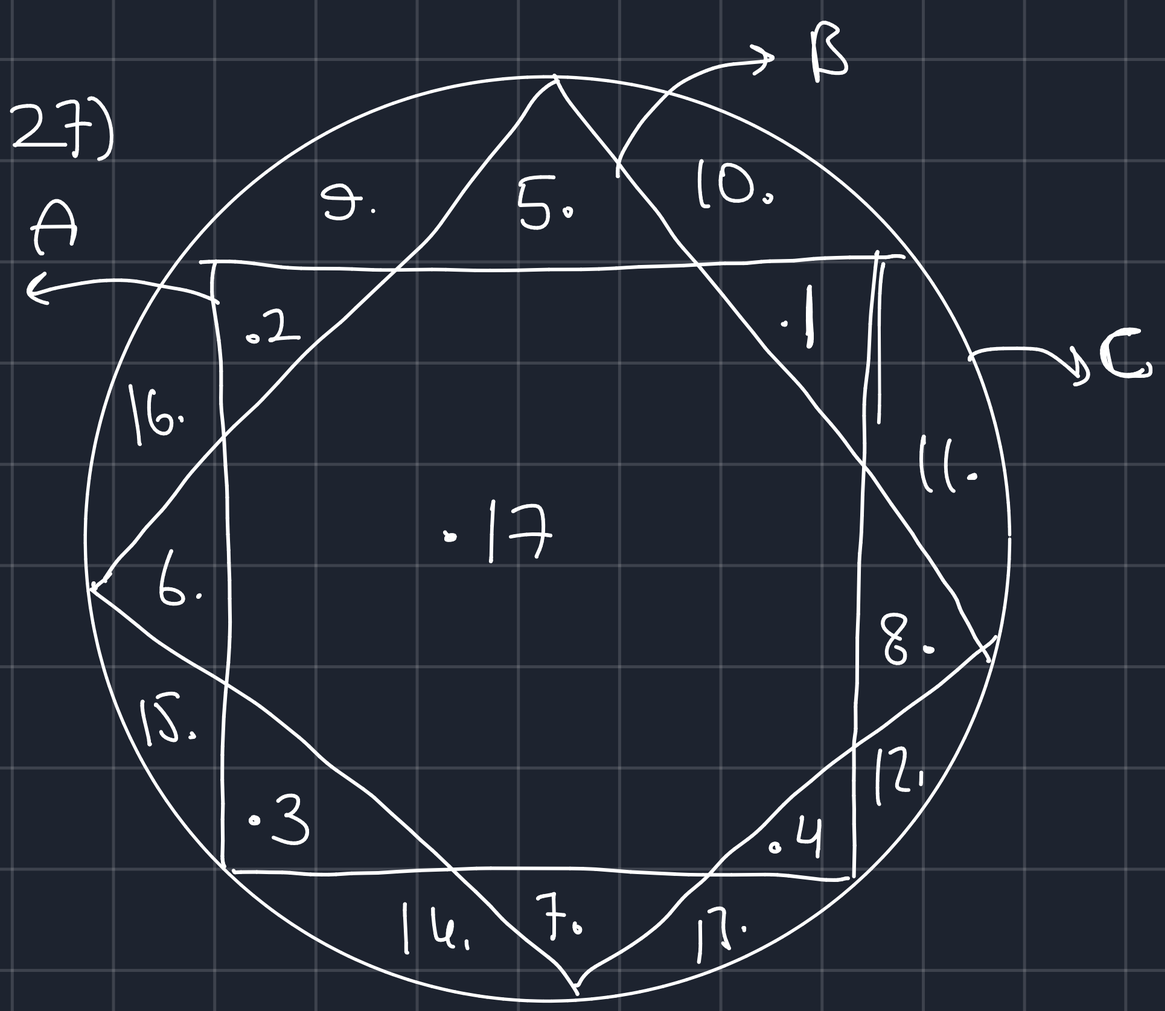
III. ? → b

GÖZÜM:

$1 \rightarrow b$ olmaz

$2 \rightarrow c$ 'de

27)



$(A \cap B) \cup ((C \setminus A) \setminus (C \setminus B))$

$17 \quad \cup \quad 5,6,7,8$

$\hookrightarrow (5,6,7,8,17)$

Eksik Sorular

28) $p(x) = (a-1)x^3 + 2x^2 + \cdots$ $p(x) = q(x)$ ise

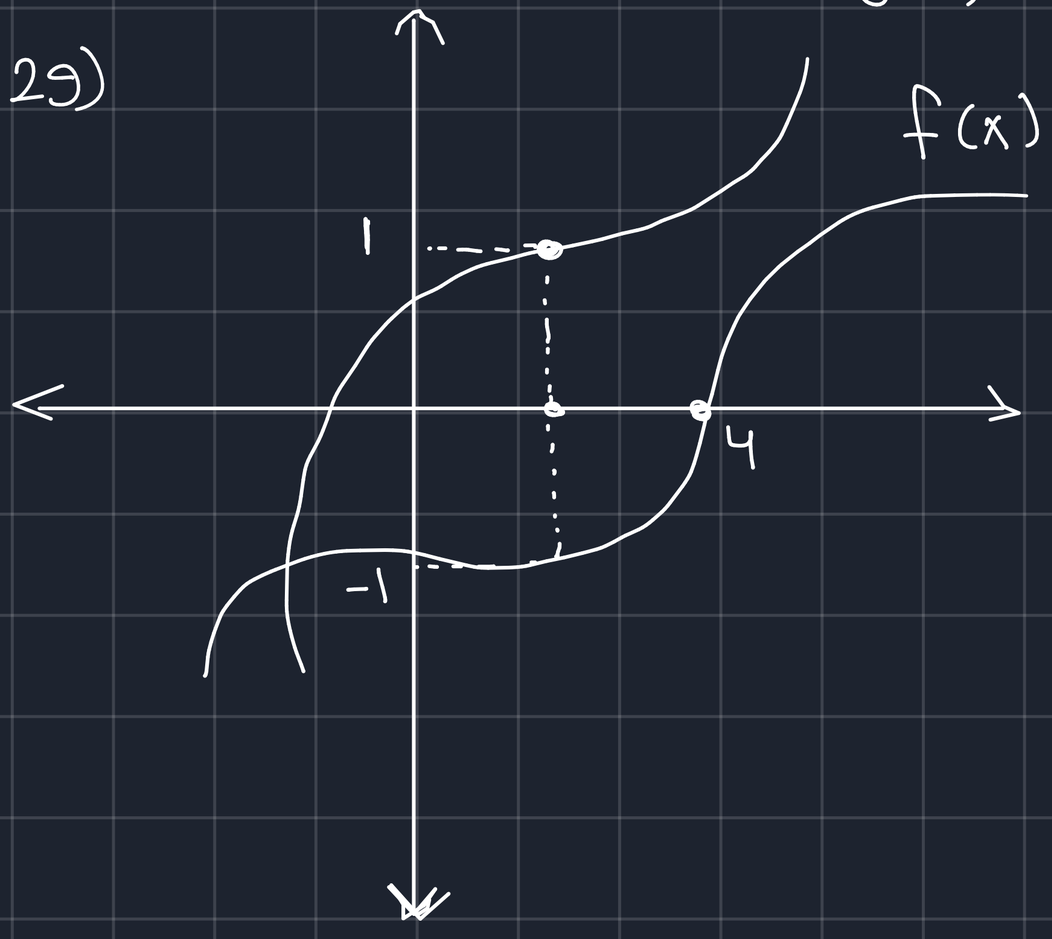
$q(x) = (c-a)x^2 \cdots$ $a+b+c = ?$

Çözüm:

$a=1,\ c=3,\ b=2 \rightarrow 1+2+3=6$

---

29)



$a \in \{1,2,3,4,5\}$

$b \in \{1,2,3,4,5\}$

$fog(b) = f+g(a) = 0$

$f(\underbrace{g(b)}_{4}) = 0$ $\qquad f(a)+g(a) = 0$

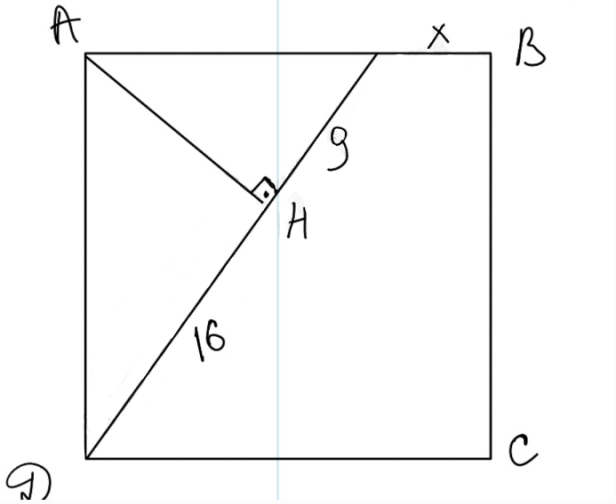
$g(b) = 4$

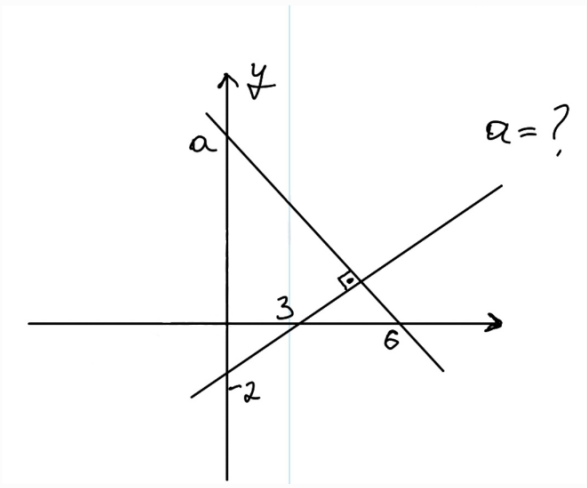
$b-a = ?$

Yanıt = 1

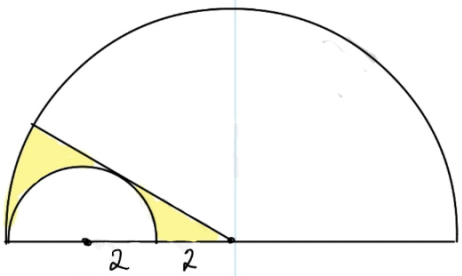
+ 1 soru eksik

ABCD - kare → x = ?

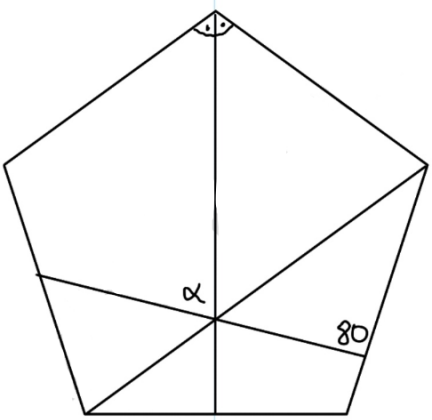




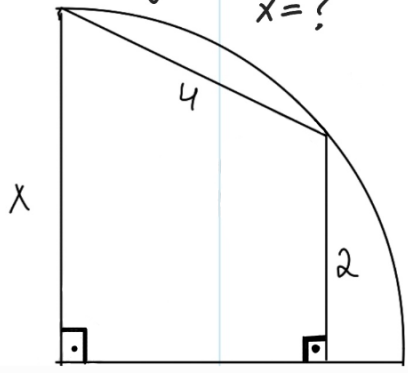
Taralı Alan = ?

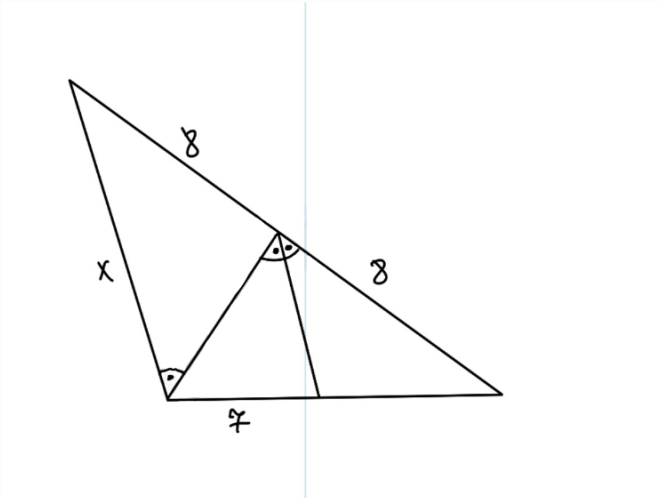


Düzgün beşgen

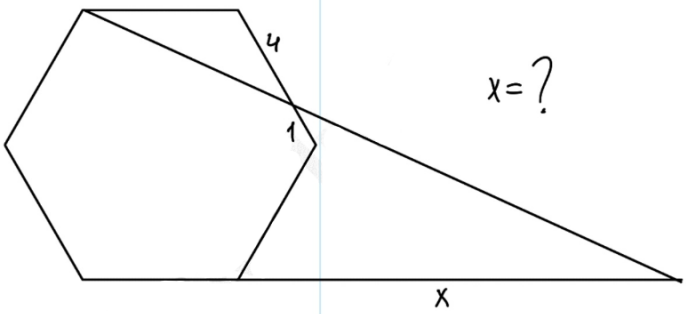


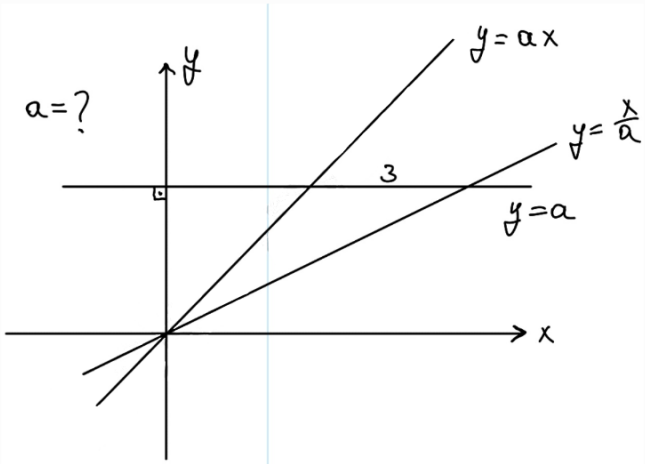
Çeyrek daire
x = ?

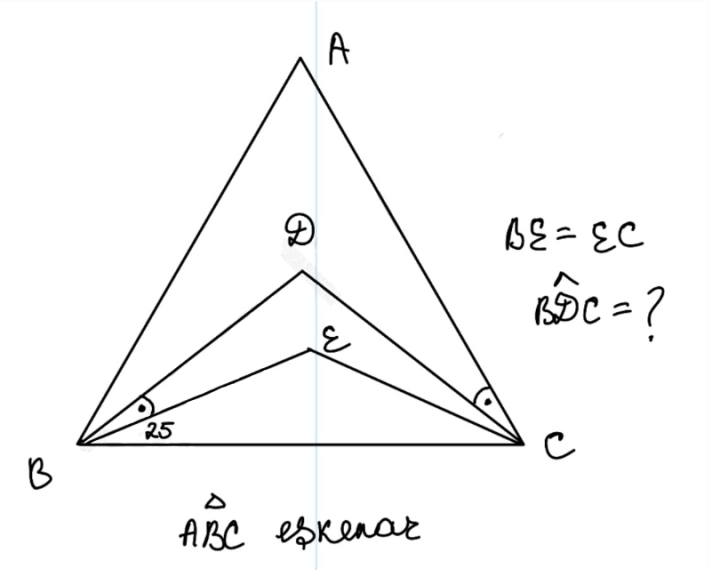




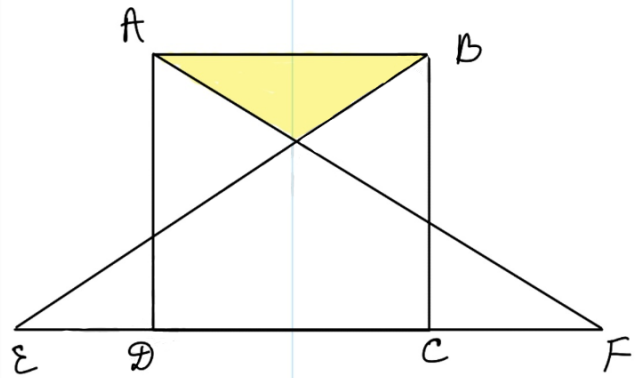
Düzgün altıgen







ABCD - kare



$ED = DC = 2 \cdot CF = 28$