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همراه شما
در مسیر یوس

سوالات یوس ۲۰۲۱

دانشگاه مارمارا



Marmara University

INTERNATIONAL STUDENTS' EXAM



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✈️ @uniland_yos

bir satıcı 3 limonu 5 tl ye almıştır
5 limonu da 12 ye satmış bulunmaktadır
satıcının kâr oranı kaçtır

$$x \in (-\pi, \pi)$$

$$4 - \sin x$$

denkleminin alabileceği maksimum değer için x in minimum değeri kaçtır

$$f(x) = x^2 + x$$

$$g(x) = \frac{1}{x+4}$$

$$f \circ g(x) = ?$$

3a iki basamaklı sayıdır
 $3a \times (122)^3$ sayısını 7 ile bölümünden
kalan 3 olduğuna göre
a'nın değerler toplamı kaçtır

bir satıcı 3 limonu 5 tl ye almıştır
5 limonu da 12 ye satmış bulunmaktadır
satıcının kâr oranı kaçtır

$$3^{x+y} = 12$$

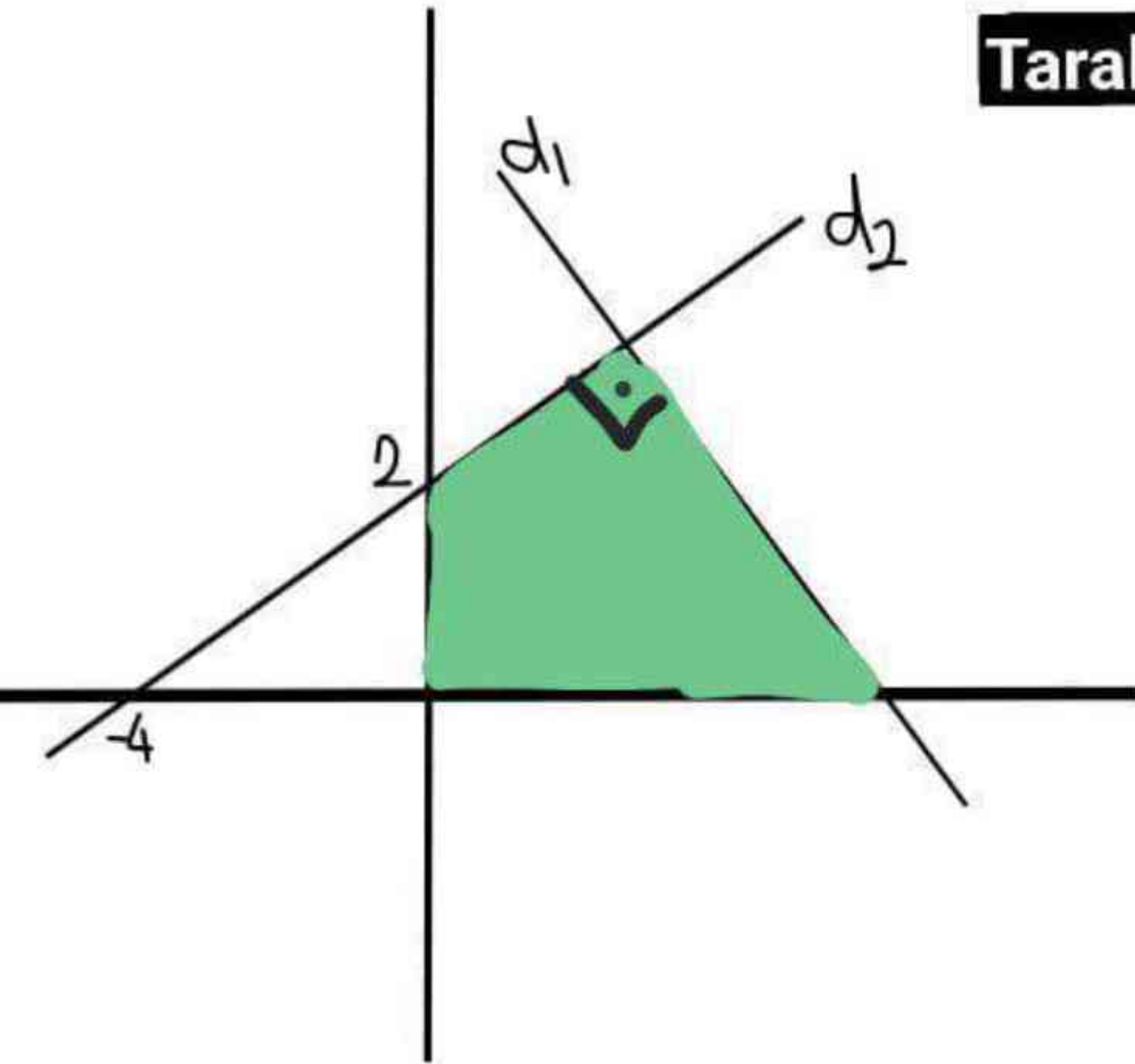
$$3^{y-x} = 4$$

$$3^y = ?$$

$$f(x) = x^2 + (\sin x + 2\cos x)x + \cos 2x$$

$$f'(1) = ?$$

Taralı alan=?



$$1 + \frac{1}{1 - \frac{1}{1 + \frac{1}{2}}} = 1 - \frac{1}{1 - \frac{1}{a}}$$

$$a = ?$$

$$\int \frac{\tan x}{2\tan^2 x - 1} dx = ?$$

$$A = 5 + 11 + 17 + \dots + 6n - 5$$

$$B = 3 + 7 + 11 + \dots + 4n - 1$$

$$A - B = 175$$

$$n = ?$$

$$\frac{A}{(x+1)} + \frac{B}{(x-1)} + \frac{C}{(x-1)^2} = \frac{3x^2+x+2}{(x^2-1)(x-1)}$$

$$A+C=?$$

$$\frac{1}{x^2} \leq \frac{1}{4x+12}$$

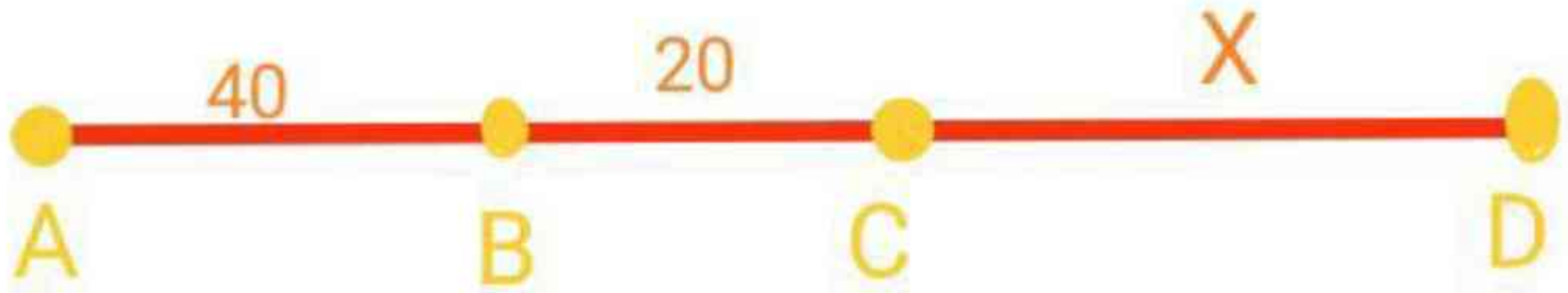
denklemini sağlayan en küçük iki değer toplamı kaç tır?

$$3\sin x + 4\cos x = 6$$

denkeminin $(0, 2\pi)$ aralığında kaç kökü vardır

$$p(x) = x^{17} + ax^{11} + bx^9 + x - 2$$

polinomunun $x-3$ ile bölümünden kalan 5 olduğuna göre $x+3$ ile bölümünden kalan kaçtır?



A ve B noktalarından aynı anda hareket eden iki araç B noktasında buluşmaktadır
Aynı araçlar aynı yönde yola birlikte çıktığında ise D noktasında buluşuyorlar
buna göre x kaçtır?

$$f(x) = \sqrt{x + \sqrt{x + 3\sqrt{x}}}$$

$$f'(x) = ?$$

$$\lim_{x \rightarrow 1^-} \frac{4x^2 - x + 5}{|x - 1|}$$

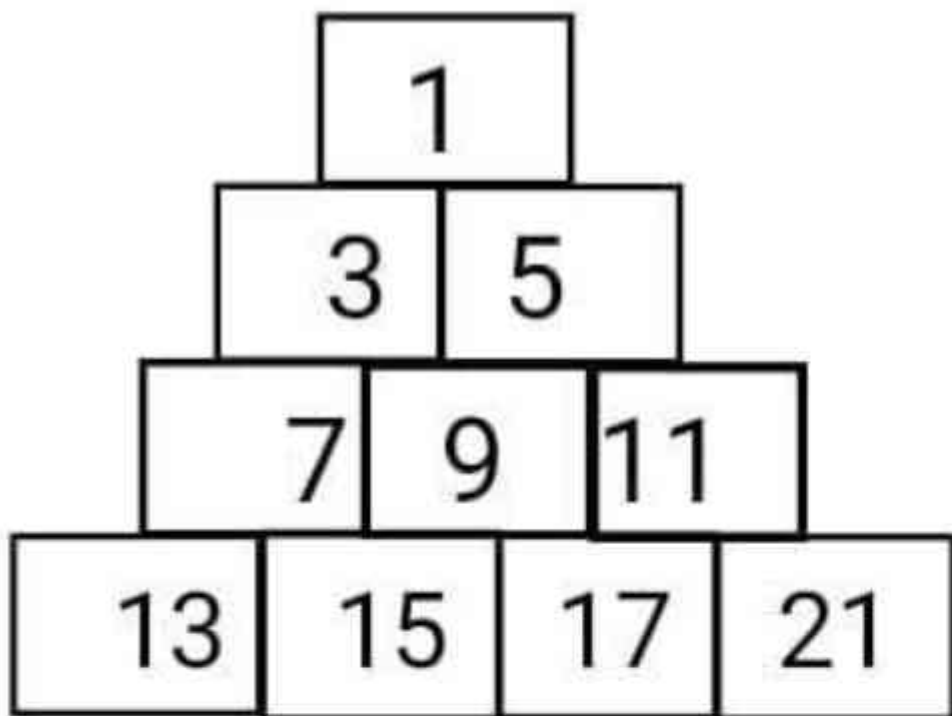
$\lim_{a \rightarrow 0}$

$$\frac{3a^2 - 1}{2a - 1}$$

....، 18، 23، 21، 26، 23، 28،

$$\frac{5}{0.\overline{3}} + \frac{4}{0.\overline{9}} - \frac{3}{0.2}$$

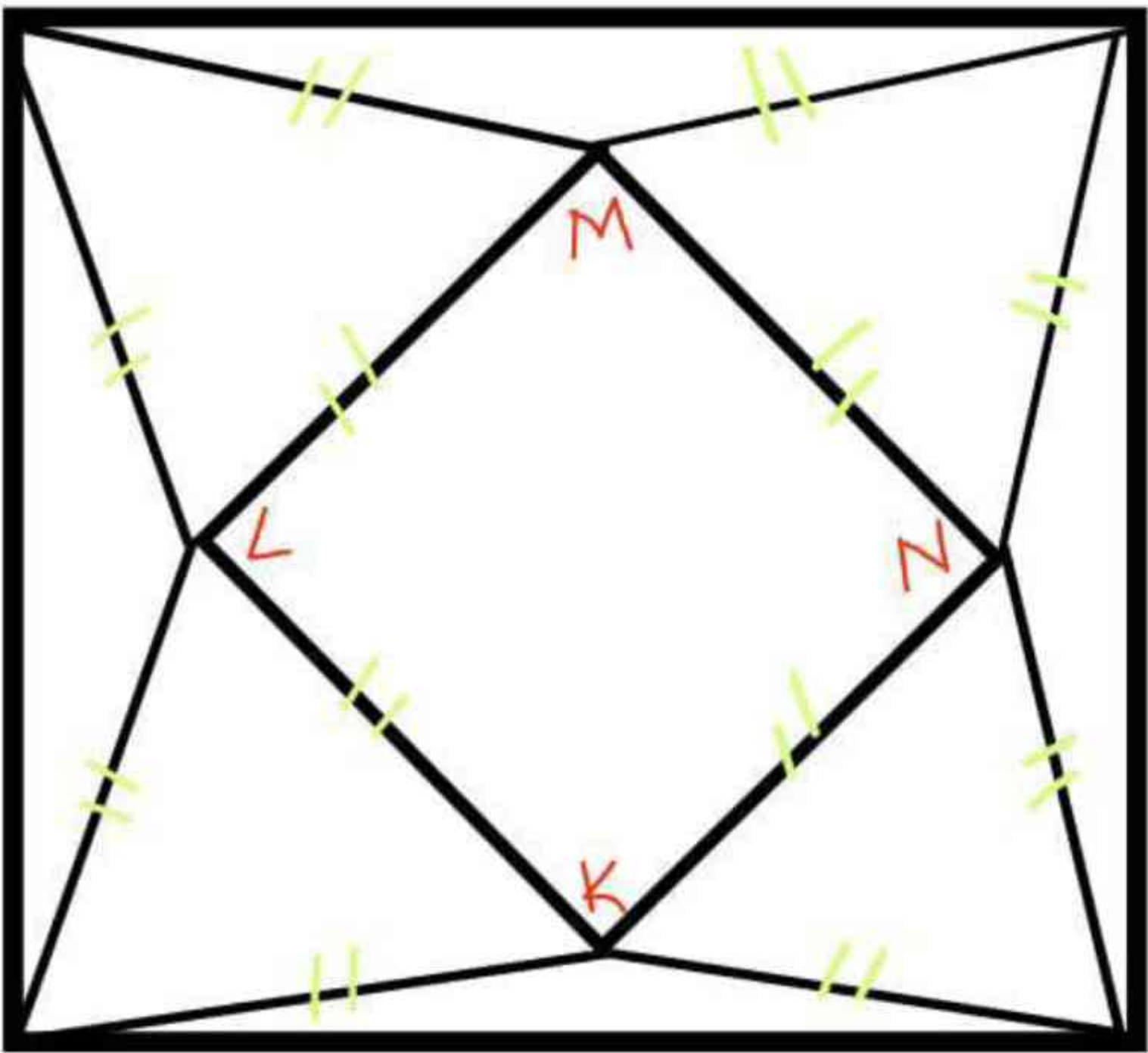
bir tuzlu su karışımının %36 sını tuz oluşturmaktadır
200 gram olan bu karışıma 24 gram tuz 76 gram su
eklersek eğer oluşacak yeni karışımda tuz oranı ka
çtır



10.satırda ilk ve son terimin toplamı kaçtır?

A

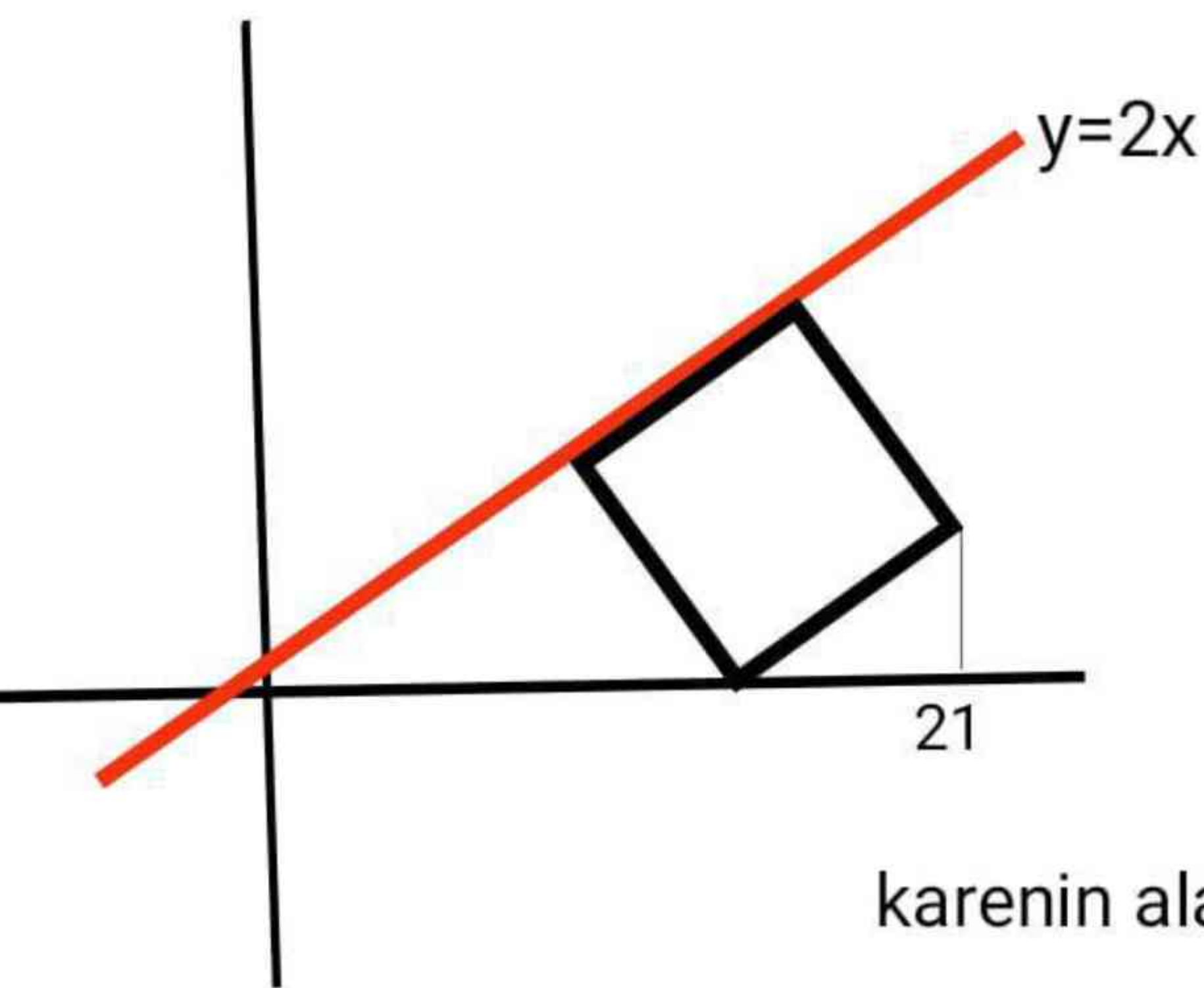
C



$$\frac{A(klmn)}{A(ABCD)}$$

B

D



karenin alanı=?

$2x$

x

yanda verilenlere göre
karenin alanı kaçtır?

x

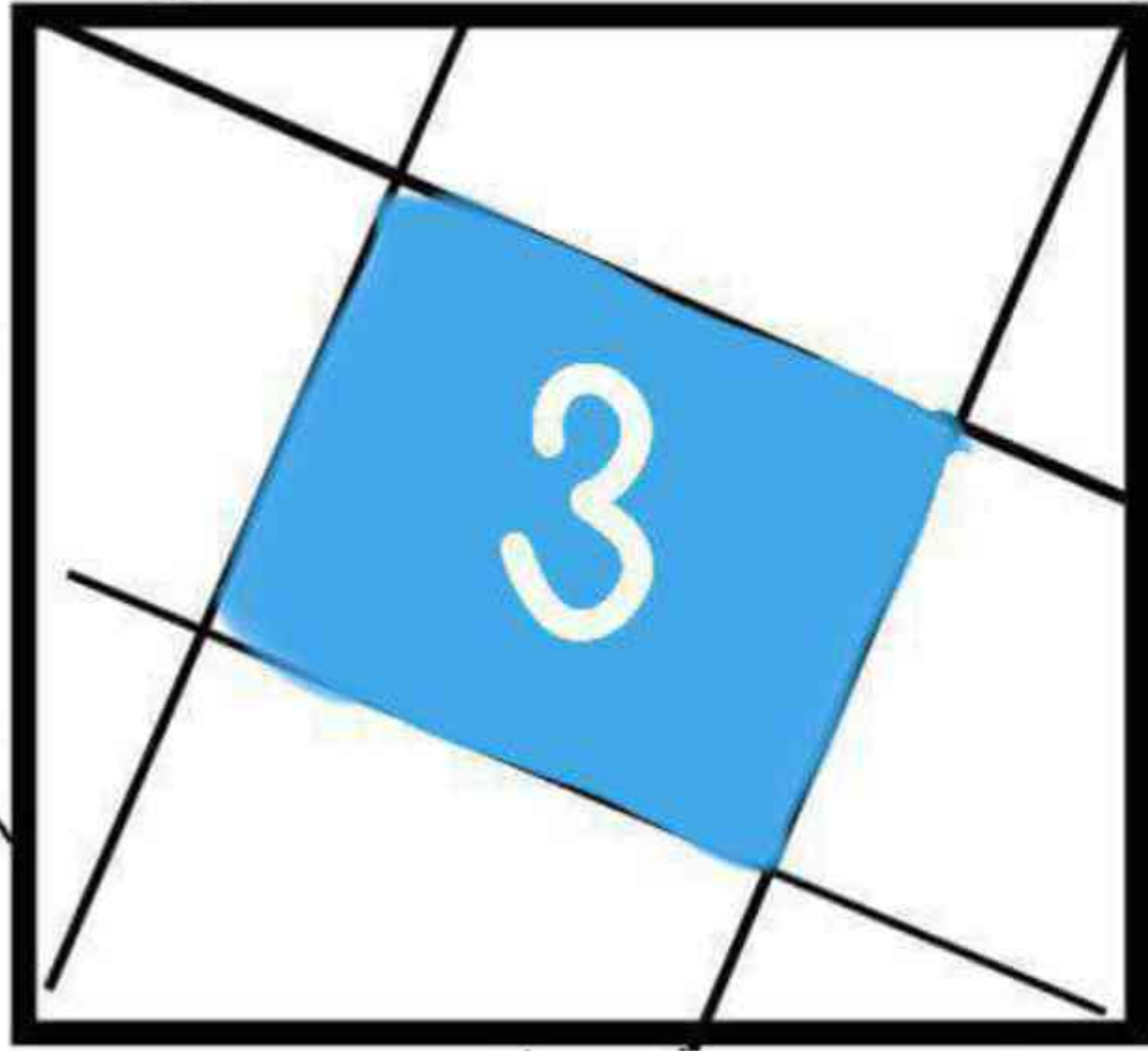
$2x$

$2x$

x

x

$2x$



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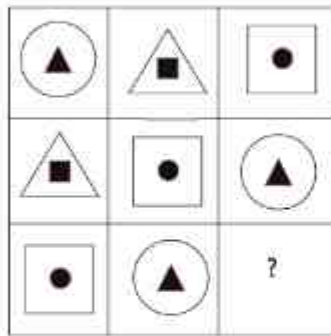
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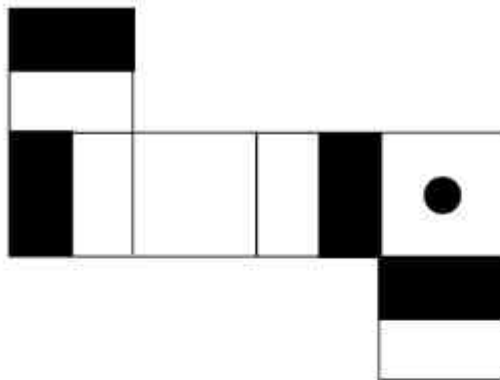
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In the following question, find the figure which the question mark (?) stands for in the given matrix.



- A) B) C)
- D) E)

In the following question, which picture cube does the given shape form?



- A)
- B)
- C)
- D)
- E)

In the following question, find the figure which the question mark (?) stands for in the given figure sequence.

2	3	5	6
7	?	?	11
15	?	18	19
20	21	23	24

- A)

8	10
16	

 B)

6	10
17	

 C)

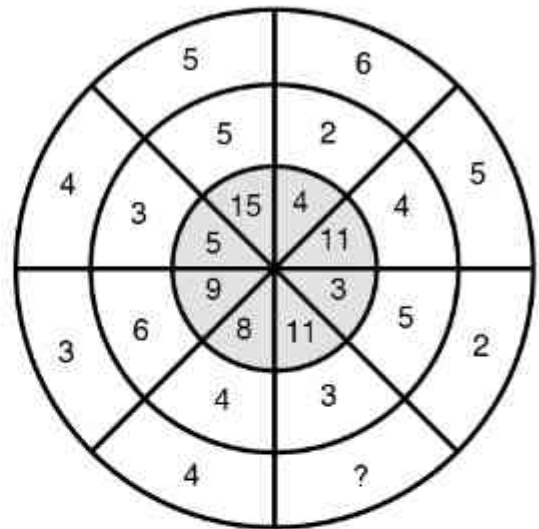
8	11
17	
- D)

9	11
16	

 E)

8	11
16	

In the following question, find the number which replaces the question mark (?) and completes the sequence



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

I.		II.
T O S P	} }	4516
R O T P		6254
P T S R		5214
P E O R		4326
E O T R		3256

T P R O

 = ?

- A) 1256 B) 4263 C) 2643
 D) 5462 E) 3524

$$\frac{3.9}{1.3} + \frac{1.11}{0.37} + \frac{0.03}{0.015} = ?$$

- A) 3 B) 5 C) 6 D) 7 E) 8

$$\frac{(m+n)(m^2-n^2-1)!}{[(m-n)(m+n)]!} = ?$$

- A) $\frac{1}{m+n-1}$ B) $\frac{1}{m-n}$ C) $\frac{1}{m+n}$
 D) $\frac{1}{(m-n)!}$ E) $\frac{1}{m-n+1}$

$$\frac{6^x - 3^x}{2^x - 1} = 3^{2-x} \Rightarrow x = ?$$

- A) -2 B) -1 C) 0 D) 1 E) 2

$$\sqrt{3-\sqrt{2}} \cdot \sqrt[4]{11+6\sqrt{2}} = ?$$

- A) $\sqrt[3]{7}$ B) 1 C) $\sqrt{8}$
 D) $\sqrt{7}$ E) $\sqrt{14}$

$$A = \{1, 2, 3, 4, 5, 6, 7\}$$

$$B = \{1, 2, 4, 5\}$$

$$C = \{5, 6, 7\}$$

$$C \cup (A - B) = ?$$

- A) $\{1, 2, 6, 7\}$ B) $\{1, 2, 3, 5, 7\}$
 C) $\{5, 6, 7\}$ D) $\{1, 2, 3, 5, 6, 7\}$
 E) $\{3, 5, 6, 7\}$

$$3x^2 - 2x + 1 = 0$$

$$9x^2 + \frac{1}{x^2} = ?$$

- A) $-\frac{7}{2}$ B) -2 C) $-\frac{5}{2}$
 D) $-\frac{3}{2}$ E) $\frac{1}{2}$

$$\left. \begin{array}{l} x + 2y + z = 5 \\ 2x - y + z = 7 \\ 9x + 2y + 6z = 40 \end{array} \right\} \Rightarrow x + y + z = ?$$

- A) -7 B) -3 C) 0

$$f(2^x + 1) = 4^x - 1$$

$$f(x + 2) = ?$$

- A) $x(x - 2)$ B) $(x - 1)^2$ C) $x^2 - 1$
 D) $x^2 + 1$ E) $x(x + 2)$

If $P(x)$ is a polynomial,

$$(x^2 + 1)P(x) = ax^3 + (b - 2)x + a - 1$$

$$a - b = ?$$

- A) -3 B) -1 C) 0 D) 1 E) 3

$$i^2 = -1$$

$$\left. \begin{matrix} z = 2 - 3i \\ w = 1 + 2i \end{matrix} \right\} \Rightarrow |z + w| = ?$$

- A) $\sqrt{2}$ B) $\sqrt{10}$ C) 13
D) 16 E) 23

$$\sin x \cdot \cos x = \frac{1}{4}$$

$$\sin^4 x + \cos^4 x = ?$$

- A) $\frac{3}{4}$ B) $\frac{5}{8}$ C) $\frac{7}{8}$ D) $\frac{5}{12}$ E) $\frac{7}{12}$

$$\frac{\sin 15^\circ}{\sec 15^\circ} + \frac{\tan 105^\circ}{\cot 15^\circ} = ?$$

- A) -1 B) $-\frac{3}{4}$ C) $-\frac{1}{2}$
D) 0 E) $\frac{1}{4}$

$$0 < x < \frac{\pi}{2}$$

$$\sqrt{1 - \sin^2 x} \cdot \sqrt{\left(\frac{1 - \cos 2x}{2}\right)} \cdot \operatorname{cosec} 2x = ?$$

- A) $\frac{1}{2}$ B) $-\frac{1}{4}$ C) 1
D) 2 E) $\frac{1}{3}$

What is the solution set for the following equation?

$$\begin{vmatrix} \sin 83 & -\cos 23 \\ \cos 83 & \sin 23 \end{vmatrix} = 2x - 1$$

- A) $\{0\}$ B) $\left\{\frac{3}{8}\right\}$ C) $\{-1\}$
D) $\left\{\frac{3}{4}\right\}$ E) $\{1\}$

$$\lim_{n \rightarrow \infty} \frac{1^2 + 2^2 + 3^2 + \dots + n^2}{7(n^3 + n^2 + 1)} = ?$$

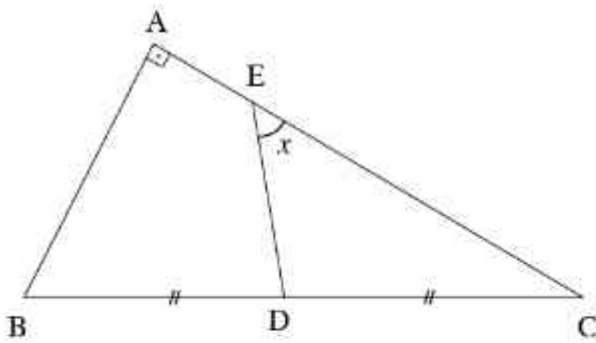
- A) $\frac{1}{42}$ B) $\frac{1}{21}$ C) $\frac{2}{7}$
D) $\frac{21}{7}$ E) $+\infty$

$$\int_0^2 (\sqrt{16-x^2} - \sqrt{3}x) dx = ?$$

- A) $\frac{\pi}{3}$ B) $\frac{\pi}{2}$ C) π
 D) $\frac{5\pi}{4}$ E) $\frac{4\pi}{3}$

$$\int \left[\sin \frac{t}{2} + \cos \frac{t}{2} \right]^2 dt = ?$$

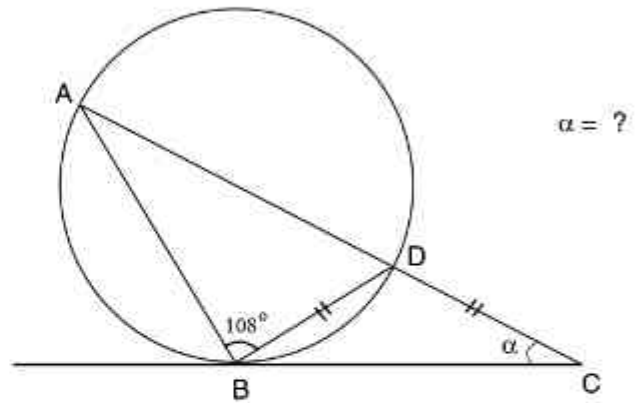
- A) $t + \cos t + c$ B) $t - \sin t + c$
 C) $t - \cos t + c$ D) $t + \sin t + c$
 E) $t + \frac{\cos t}{2} + c$



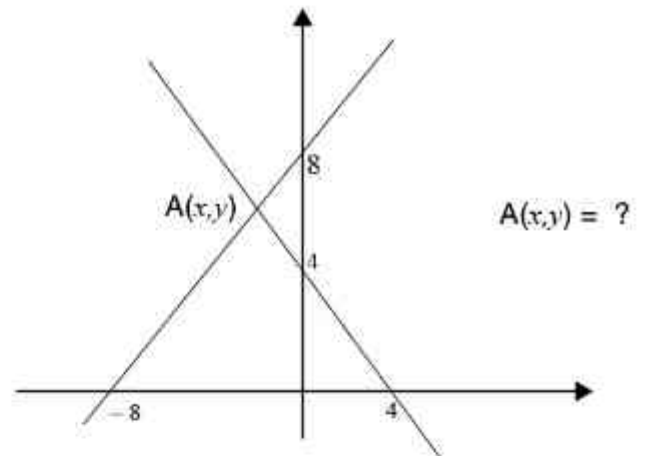
$$|AB| = |ED|, |BD| = |DC|$$

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

- A) 20 B) 25 C) 30 D) 45 E) 60



- A) 20 B) 22 C) 24 D) 26 E) 28



- A) (-2, 6) B) (-1, 6) C) (-1, 5)
 D) (-2, 5) E) (-2, 4)