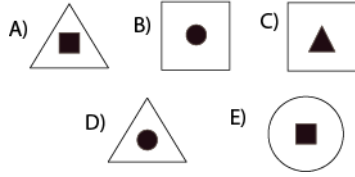
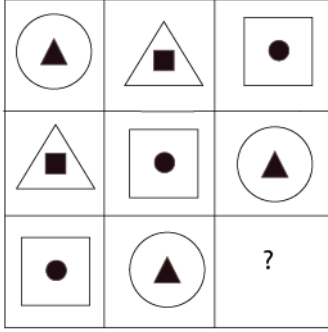
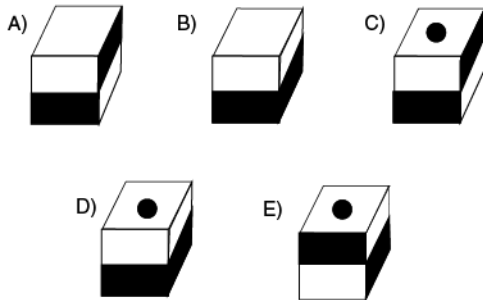
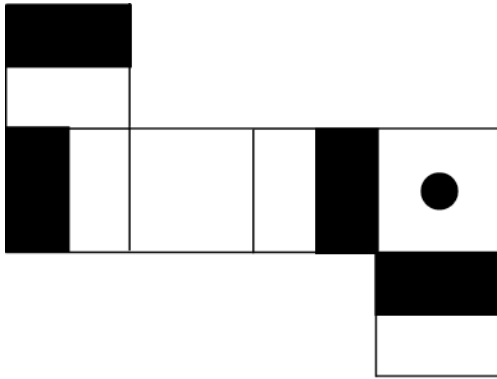


Aşağıdaki şekil dizileri birer kurala göre oluşmuşlardır. Kurala göre soru işareti yerine verilen seçeneklerden hangisi gelmelidir?

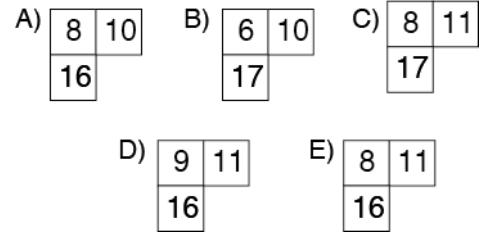


Aşağıda açık şekil verilmiş olan küpün kapalı şekli aşağıdakilerden hangisidir?

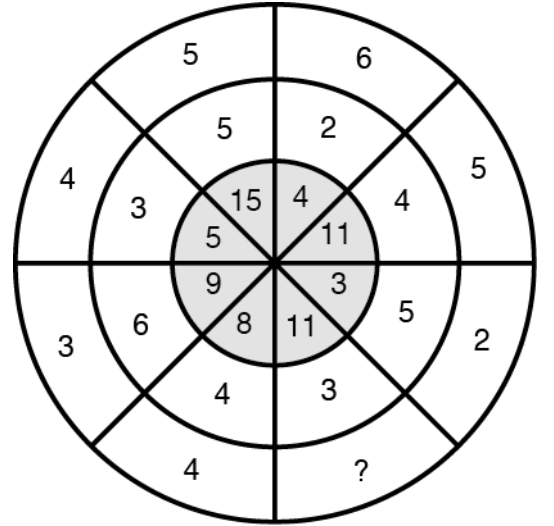


Aşağıda verilen şekil dizisinde soru işaretinin yerine getirilmesi gereken şekli bulunuz.

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



Aşağıda soru işareti yerine yazılacak sayıyı bulunuz.



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,

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

$$a \cdot b = ?$$

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

$$i^2 = -1$$

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

- 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) $\frac{1}{3}$

Denkleminin çözüm kümesi aşağıdakilerden hangisidir?

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

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

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

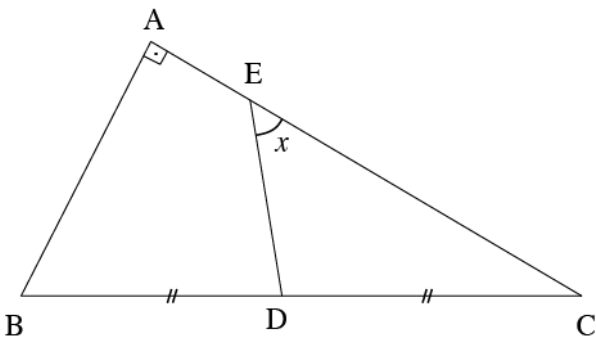
- A) $\frac{1}{42}$ B) $\frac{1}{21}$ C) $\frac{2}{7}$
D) $\frac{21}{7}$ E) $+\infty$

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

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

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

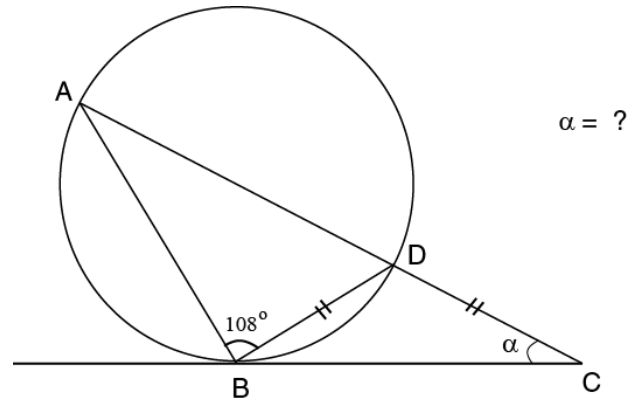
- A) $t + \cos t + c$
- B) $t - \sin t + c$
- C) $t - \cos t + c$
- D) $t + \sin t + c$
- E) $t + \frac{\cos t}{2} + c$



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

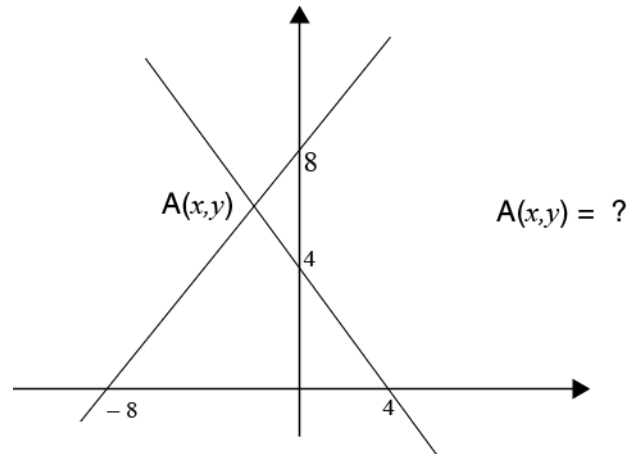
$$m(\widehat{DEC}) = ?$$

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



$$\alpha = ?$$

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



$$A(x,y) = ?$$

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