



5.

$$P(x) = 7x^3 - 2x^2 + 3x + 5$$

$$Q(x) = x^3 - x^2$$

$$P(x)Q(x) = a_6x^6 + a_5x^5 + a_4x^4 + \dots + a_1x + a_0$$

$$a_5 = ?$$

A) -9 B) -6

C) 3

D) 6

E) 9

12.

$$\log_5 [5 \log_2 2(\ln(x+1))] = 1$$

$$x = ?$$

A) $e - 2$

B) $e - 1$

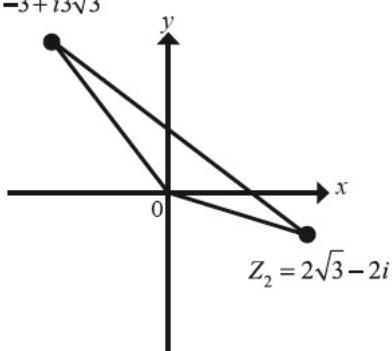
C) e

D) $e + 1$

E) e^2

23.

$$Z_1 = -3 + i3\sqrt{3}$$



$$A(Z_1 \widehat{\triangle} Z_2) = Area(Z_1 \widehat{\triangle} Z_2) = ?$$

A) $3\sqrt{3}$

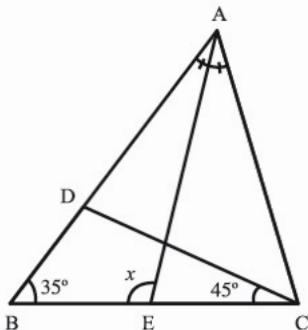
B) 6

C) $\frac{9\sqrt{3}}{2}$

D) 9

E) 12

33.



$$m(BAE) = m(EAC)$$

$$m(DBC) = 35^\circ$$

$$m(DCB) = 45^\circ$$

$$|AD| = |DC|$$

$$m(AEB) = x = ?$$

- A) 100 B) 105 C) 110
 D) 115 E) 120

37.

Aşağıdaki tabloda A, B, C, D, E harfleri her satır ve sütunda birer kez olacak şekilde yerleştirildiğinde "X" yerine hangi harf gelmelidir?

If the letters A, B, C, D, E are used once in each row and column, which letter should be used instead of "X" in the table below?

A		B		E
	B			D
			X	
C		D		
		E		B

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

44.

+	<i>a</i>	<i>b</i>
<i>a</i>		6
<i>b</i>		

×	<i>a</i>	<i>b</i>
<i>a</i>		
<i>b</i>	6	

$$a^3 + b^3 = ?$$

Yukarıdaki çarpmaya ve toplamaya tablolardında *a* ve *b* harfleri birer sayının yerine kullanılmıştır. Buna göre, $a^3 + b^3$ kaçtır?

In the multiplication and addition tables above, the letters *a* and *b* each stand for a number. Accordingly, what is the value of $a^3 + b^3$?

- A) 84 B) 90 C) 96

- D) 108 E) 112

47.

Sayı dizisinde "x" yerine kaç gelmelidir?

Which number should be used instead of "x" in the number sequence below?

1, 5, 19, 65, 211, *x*

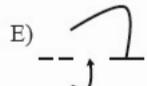
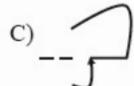
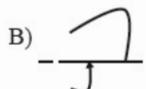
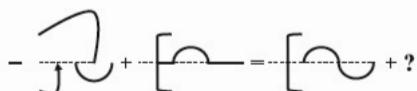
- A) 498 B) 573 C) 587

- D) 665 E) 695

55.

Aşağıdaki şekil toplama işleminde soru işareteti yerine hangi şekil gelir?

In the following shape assembly procedure, which shape should be used instead of the question mark?



58.

I. gruptaki şekiller birer rakamla gösterilerek II. gruptaki sayılar elde edilmiştir. Soru işaretinin hangi sayıyla gösterildiğini bulunuz.

The numbers in group II are obtained by denoting the shapes in group I with a digit. Find the number which corresponds to the question mark.

I.	II.
▲	○ □ *]
*	□ ■ ○]
□	* ○ ■ □]
○	■ * □]
■	○ □ ▲]

1563 2351 3615
5136 6352

$$\square * \circ \blacksquare = ?$$

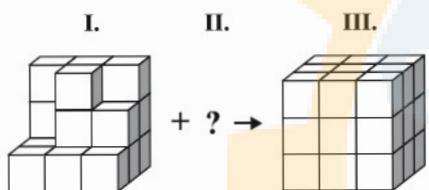
- A) 1563 B) 2351 C) 3615
D) 5136 E) 6352

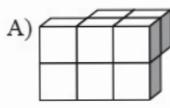
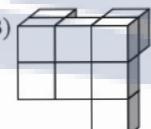
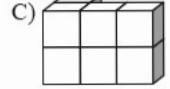
74.

- I. $\lambda \triangle \equiv \lambda \lambda \lambda$
- II. $\square \square \square \triangle \equiv \triangle \square \square \lambda \lambda$
- III. $\square \square \square \lambda \equiv ?$

- A) $\triangle \square \square \square$ B) $\square \triangle \square \square \square$
 C) $\square \square \square \square \square$ D) $\lambda \lambda \square \square$
 E) $\triangle \square \square \lambda$

76.



- A)  B) 
 C)  D) 
 E) 