

همراه شما
در مسیر یوس

سوالات یوس‌ای

دانشگاه بالیکسیر



Balikesir University
INTERNATIONAL STUDENTS' EXAM

uniland.ir

۰۲۱۹۱۳۰۵۹۰۶
 uniland_yos

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

$A \subset x \subset B$

buna göre x kaç tane kümeye oluşturur?

- A) 4 B) 5 C) 16 D) 17 E) 32

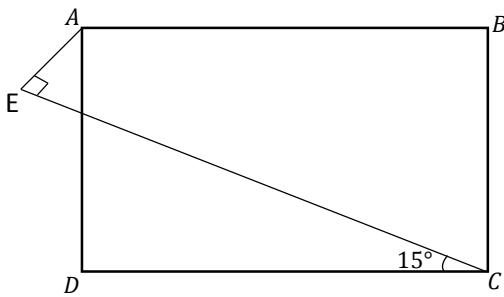
- A) B) C) D) E)

2. $6! + 4^{2018} + 3^4 = x \pmod{5}$

$x = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

3.

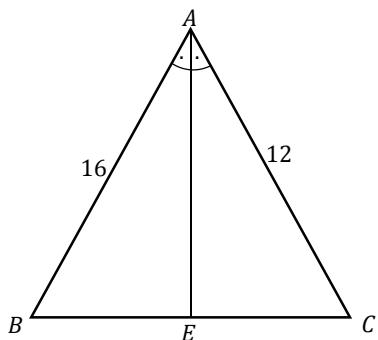


$ABCD$ bir kare ve $|AE| = 2\sqrt{3}$

$\Rightarrow |AB| = ?$

- A) $2\sqrt{6}$ B) $\sqrt{6}$ C) $\sqrt{3}$ D) $2\sqrt{3}$ E) 2

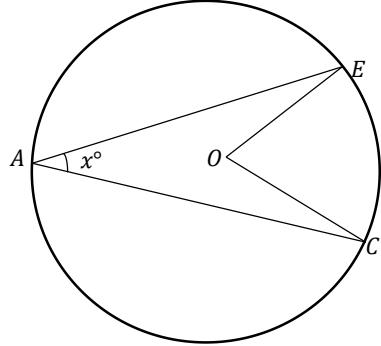
4.



$m(B\hat{A}E) = m(E\hat{A}C) = 45^\circ$, $[AE]$ açıortay,
 $|BA| = 16$ ve $|AC| = 12$ olduğuna göre $|EC| = ?$

- A) $\frac{60}{7}$ B) $\frac{80}{7}$ C) $\frac{45}{7}$ D) $\frac{60}{7}$ E) $\frac{55}{7}$

5.

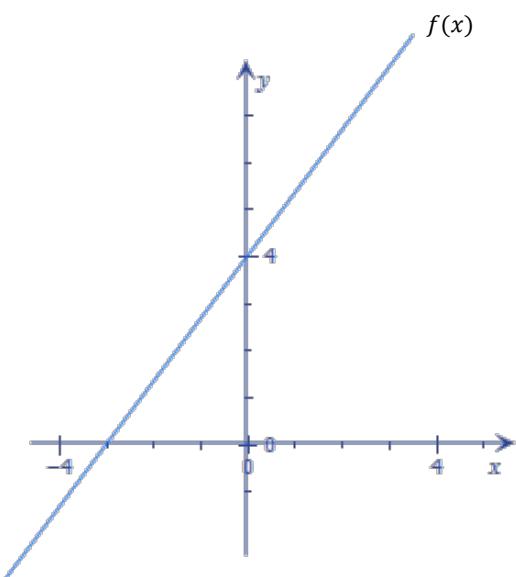


O merkezli çemberde $m(E\hat{O}C) = 32^\circ$

Buna göre x kaçtır?

- A) 64 B) 32 C) 18 D) 16 E) 29

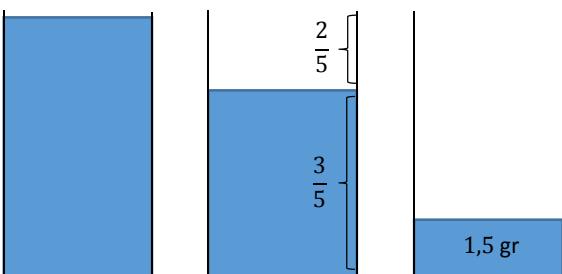
6.



$$\Rightarrow f(10) = ?$$

- A) $\frac{42}{3}$ B) $\frac{52}{4}$ C) $\frac{62}{3}$ D) $\frac{52}{3}$ E) $\frac{54}{3}$

7.



Birinci kabın tamamı suyla doluyken $\frac{2}{5}$ i
buharlaştırıldığında 2.ci şekil elde edildi, sonra 2.ci
şekilde kalan suyun $\frac{3}{4}$ ü buharlaştırıldığında 3.ncü
şekil ede edildi. 3.ncü şekilde kalan su miktarı 1,5
gr olduğuna göre kabın tamamı kaç gr su sıgar?

- A) 10 B) 20 C) 15 D) 12 E) 16

$$8. (p \Rightarrow q) \vee r' \equiv 0$$

buna göre aşağıdakilerden hangisi doğrudur?

- A) $p \equiv 1$, $q \equiv 0$, $r \equiv 1$
 B) $p \equiv 1$, $q \equiv 1$, $r \equiv 1$
 C) $p \equiv 1$, $q \equiv 0$, $r \equiv 0$
 D) $p \equiv 0$, $q \equiv 0$, $r \equiv 1$
 E) $p \equiv 0$, $q \equiv 1$, $r \equiv 0$

$$9. f(x) = \frac{d}{dx} \left(\frac{2}{x+1} \right) \Rightarrow f'(1) = ?$$

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

$$10. \int_0^2 \frac{x+1}{x+2} dx = ?$$

- A) $2 + \ln 2$ B) $2 - \ln 4$ C) $2 - \ln 2$
 D) $1 - \ln 2$ E) $2 + \ln 4$

11. $\int f(x) dx = 2x^3 - 6x^2 + 4x + 9$

$$\Rightarrow f''(2) = ?$$

- A) -12 B) 24 C) 0 D) 12 E) -24

12. $\frac{\frac{1}{3} - \frac{20}{12} - \frac{13}{49}}{\frac{20}{12} + \frac{13}{49} - \frac{1}{3}} = ?$

- A) $\frac{159}{100}$ B) $\frac{235}{147}$ C) 1 D) $-\frac{235}{147}$ E) -1

13. $a < 0 < b$

$$\Rightarrow |3a| + |b - a| + |2b| = ?$$

- A) $4a - 3b$ B) $3b + 2a$ C) $b - 2a$
 D) $-4a - b$ E) $3b - 4a$

14. $\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} - \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}} + \frac{6}{\sqrt{6}} = ?$

- A) $3\sqrt{6}$ B) $\frac{\sqrt{3} + \sqrt{2}}{2}$ C) $5\sqrt{6}$
 D) $\sqrt{6}$ E) $\sqrt{3} + \sqrt{2}$

15. $8007 + 18 + 0,014 + 0,4 = ?$

- A) 8025,054 B) 8025,45 C) 8029,414
 D) 8025,414 E) 8029,14

16. $\frac{(1-i)^{16} + (i+1)^{17}}{1+i} = ?$

- A) $2^7(3+i)$ B) $2^8(1+i)$ C) $2^8(3-i)$
 D) $2^7(3-i)$ E) $2^7(1-i)$

17. $\frac{0, a + 0,0a}{0, \bar{a} + 0,0\bar{a}} = ?$

- A) 0,9 B) 1,9 C) $\frac{11}{90}$ D) $\frac{121}{9000}$ E) $\frac{121a^2}{9000}$

18. $f(x) = \frac{x-5}{x-2}$

$$\Rightarrow (f^{-1} \circ f^{-1})(3) = ?$$

- A) $\frac{1}{2}$ B) 8 C) $\frac{1}{8}$ D) $\frac{7}{4}$ E) -2

19. $\log_{\sqrt{2}} 16 + \log_3 \sqrt{3} - \log_{100} 10 = ?$

- A) $\frac{11}{2}$ B) $\frac{5}{2}$ C) $\frac{13}{2}$ D) 8 E) 4

20. $\cos \frac{5\pi}{3} + \tan \frac{4\pi}{3} = ?$

A) $\sqrt{3} - \frac{1}{2}$ B) $\frac{2\sqrt{3} + 1}{2}$ C) $\frac{-2\sqrt{3} - 1}{2}$

D) $\frac{2\sqrt{3} + 3}{6}$ E) $\frac{2\sqrt{3} - 3}{6}$

21. $\sin^2 \frac{\pi}{10} + \cos^2 \frac{\pi}{10} + 2 \cot \frac{7\pi}{4} = ?$

A) $-2 + \sqrt{2}$ B) $-2 - \sqrt{2}$ C) 3

D) -2 E) -1

22. $\frac{x^3 - 8}{x^2 - 4} : \frac{x^2 + 2x + 4}{x^2 + 4x + 4} = ?$

A) $x + 2$ B) $x - 2$ C) $x^2 + 2x + 4$

D) $x^2 - 4$ E) $(x + 2)^2$

23. $A = 20 + 22 + \dots + 60$

$A = ?$

A) 1830 B) 480 C) 840 D) 720 E) 360

24. $\int_0^2 e^{x^2 - 4x} (x - 2) dx = ?$

A) $\frac{1 - e^3}{2e^3}$ B) $\frac{1 - e^4}{2e^4}$ C) $\frac{e^4 - 1}{2e^4}$

D) $\frac{e^3 - 1}{2e^3}$ E) $\frac{e^4 + 1}{2e^4}$

25.

$f(x) = (x^2 + 2x - 1)^5 + \pi^2$

$f'(0) = ?$

A) 10 B) -10 C) $10 + 2\pi$ D) $-10 + 2\pi$ E) 0

26. $x + \frac{1}{x} = \frac{5}{2} \Rightarrow x^2 + \frac{1}{x^2} = ?$

A) $\frac{9}{4}$ B) $\frac{16}{4}$ C) $\frac{18}{4}$ D) $\frac{17}{4}$ E) $\frac{33}{4}$

27. $P(x^3) = x^3 + 3x^6 + 2x^3 + 8$

$P(\sqrt{2}) = ?$

A) $14 + 3\sqrt{2}$ B) $14 + 2\sqrt{2}$ C) $12 + 3\sqrt{2}$

D) $14 - 3\sqrt{2}$ E) $12 - 2\sqrt{2}$

28. $\lim_{x \rightarrow \infty} \frac{(a-2)x^3 + (b+2)x^2 + 3x + 1}{3x^2 + 6x + 5} = \frac{5}{6}$
 $\Rightarrow a \cdot b = ?$

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

29. $3 + \frac{7}{-2 + \frac{3}{x-4}} = 10 \Rightarrow x = ?$

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

30. $\frac{32^{x+1}}{2^{x+1}} = 8 \Rightarrow x = ?$

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

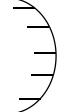
31. $x^2 \cdot y^3 < 0, \quad y^3 \cdot z^5 > 0, \quad x^7 \cdot z < 0$

yukarıda verilen eşitsizliğe göre aşağıdakilerden hangisi doğrudur?

- A) $x < 0, y < 0, z > 0$
 B) $x < 0, y < 0, z < 0$
 C) $x > 0, y < 0, z > 0$
 D) $x > 0, y < 0, z < 0$
 E) $x < 0, y < 0, z < 0$

32. $\frac{1+i+i^2+i^3+\cdots i^{97}}{1+i} = ?$

- A) 1 B) -1 C) i D) $-i$ E) 0

33. Türkiye  ?

Yansımayı bulunuz.

A) $\text{EYIKÜT} \quad \quad \quad B) \frac{1}{\text{Türkiye}}$

C) $\text{Türkiye} \quad \quad \quad D) \text{eyikrüT}$
 E) TurkiyE

34.

2 e 5 = 9

3 e 6 = 12

5 e 3 = 13

8 e 2 = ?

- A) 66 B) 62 C) 14 D) 18 E) 20

35.

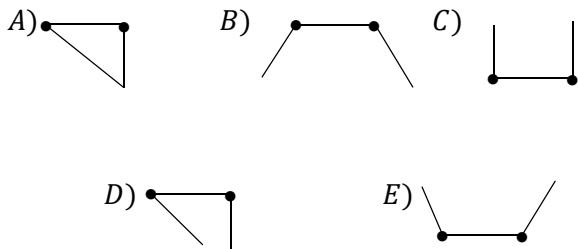
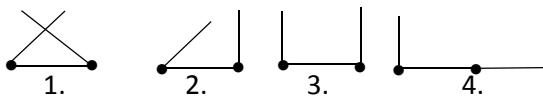
$$4 * 2 = 10$$

$$36 * 6 = 222$$

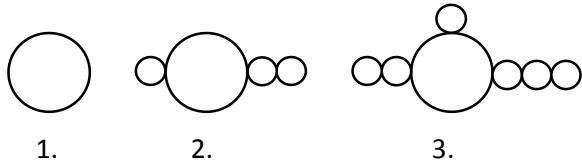
$$8 * 4 = ?$$

- A)30 B)32 C)34 D)36 E)38

36. aşağıdaki diziyi takip eden 7. şekil nedir?



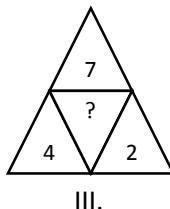
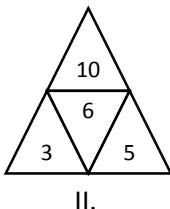
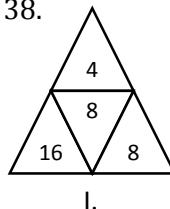
37.



Yukarıdaki seride göre 8.nci şekilde toplam kaç tane daire vardır?

- A)20 B)21 C)22 D)23 E)24

38.



Belli bir kurala göre oluşturulmuş sayı örüntüsünde III. şekilde soru işaretinin (?) yerine hangi sayı getirilmelidir?

- A)4 B)6 C)12 D)14 E)16

39. $A \neq B \neq C \neq D \neq E \neq F \neq G$

$$A = 3 \cdot C, D = 2 \cdot C, G = 2 \cdot F, C = E + F$$

$$H = 7$$

$$EFGC \cdot H < ABCD$$

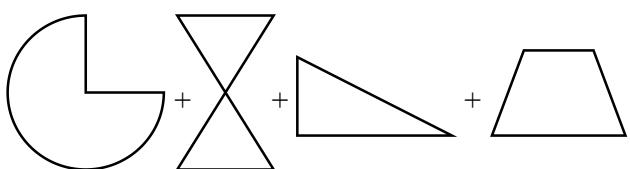
$$\Rightarrow ABCD = ?$$

- A)9836 B)9724 C)9532 D)9053 E)9824

40. aşağıdakilerden hangisi diğerlerinden farklıdır?

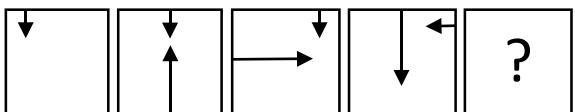
- A) B) C)
 D) E)

41.

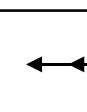


- A) B) C)
 D) E)

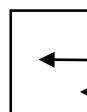
42.



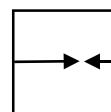
A)



B)



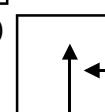
C)



D)



E)



43.



Yukarıdaki şekli kesirli halde yazınız.

- A) 2 B) $\frac{3}{2}$ C) $\frac{5}{4}$ D) $\frac{11}{12}$ E) 1

44. $3, 3, 6, 9, 15, 24, 39, x, y$

$x + y = ?$

- A) 161 B) 162 C) 163 D) 164 E) 165

45. $4 \cdot \circ = 12 \cdot \odot = 3 \cdot \ominus = 8 \cdot \oplus$

$$\frac{\ominus + \odot}{\circ + \oplus + \ominus} = ?$$

- A) $\frac{5}{8}$ B) $\frac{2}{3}$ C) $\frac{5}{7}$ D) $\frac{10}{17}$ E) $\frac{10}{19}$

46. $\square \cdot (\Delta + \circ) = 40$

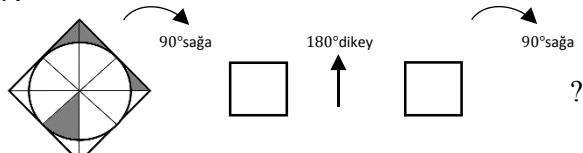
$\Delta : \square = \circ$

$\Delta - \circ = \circ$

$\Delta + \circ - \square = ?$

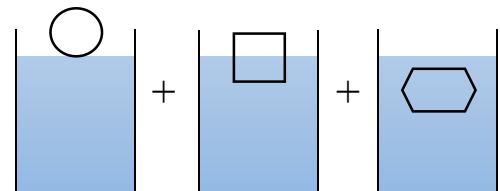
- A) -2 B) 0 C) 18 D) 12 E) 22

47.

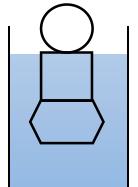


- A) B) C)
 D) E)

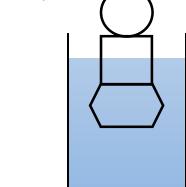
48.



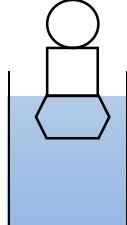
A)



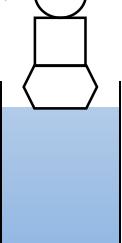
B)



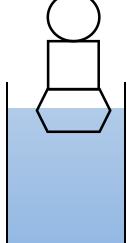
C)



D)



E)



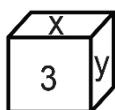
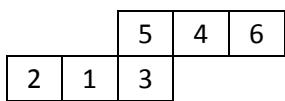
49.



Yukarıdaki şeklin tamamlayını hangisidir?

- A) B) C)
 D) E)

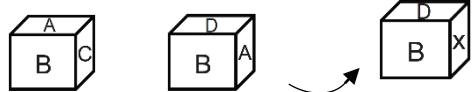
50.



$$x = ? , y = ?$$

- A) $x = 4, y = 5$
 B) $x = 5, y = 1$
 C) $x = 6, y = 1$
 D) $x = 1, y = 6$
 E) $x = 6, y = 4$

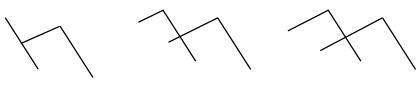
51.



$$x = ?$$

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

52.



1.adım

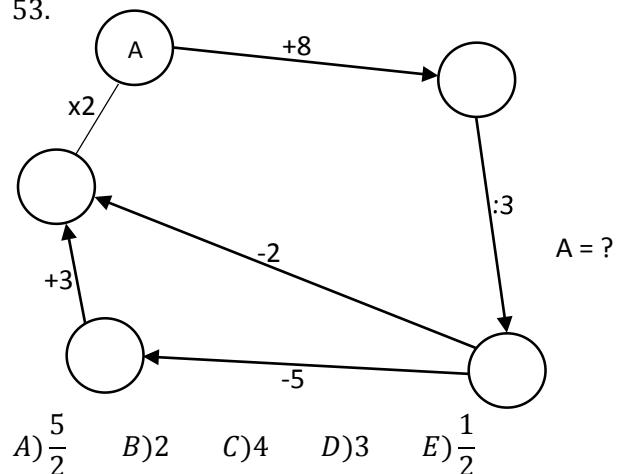
2.adım

3.adım

Aşağıda ilk 3 adımı verilen şeklärin V. adımı hangisi olmalıdır?

- A) B) C)
 D) E)

53.



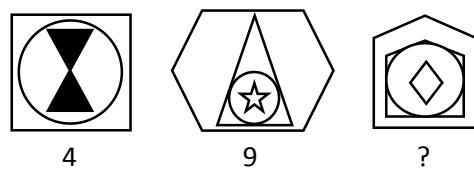
$$A = 5 + 10 + 15 + 20 + \dots + 200$$

$$B = 7 + 11 + 15 + \dots + 203$$

$$A - B = ?$$

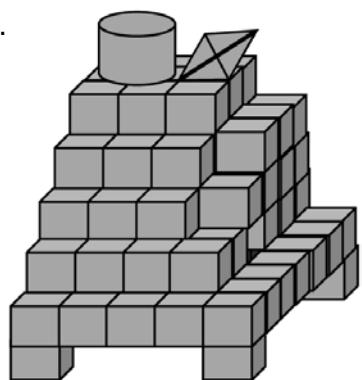
- A) 1150 B) -1150 C) 1050 D) -1050 E) 0

55.

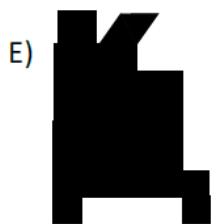
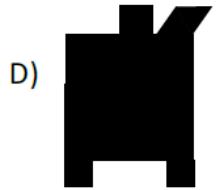
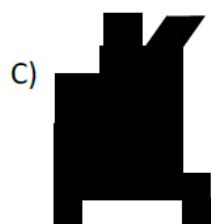
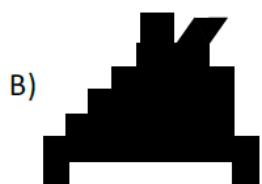
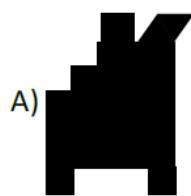


- A) 5 B) 6 C) 7 D) 8 E) 9

56.



Yukarıdaki şeitin önden görünümü hangisidir?



BAÜNYÖS 2018

CEVEP ANAHTARI

ANSWER KEY

مفتاح الأجوبة

1. C	21. E	41. B	61. -
2. C	22. A	42. A	62. -
3. A	23. C	43. E	63. -
4. D	24. B	44. E	64. -
5. D	25. A	45. D	65. -
6. D	26. D	46. C	66. -
7. A	27. A	47. C	67. -
8. A	28. C	48. B	68. -
9. D	29. C	49. D	69. -
10. C	30. C	50. C	70. -
11. D	31. D	51. E	71. -
12. E	32. A	52. D	72. -
13. E	33. E	53. C	73. -
14. C	34. D	54. B	74. -
15. D	35. D	55. X	75. -
16. D	36. A	56. E	76. -
17. A	37. C	57. -	77. -
18. B	38. D	58. -	78. -
19. D	39. A	59. -	79. -
20. B	40. D	60. -	80. -