

Deneme Sınavı
Trial Exam

11

ÇÖZÜMLER

TAMAMI VIDEO ÇÖZÜMLÜ

VIDEO ÇÖZÜM UYGULAMASI İÇİN



ÇÖZÜMLER

$$\begin{aligned}
 1. \quad 2 &= 1^2 + 1 \\
 6 &= 2^2 + 2 \\
 12 &= 3^2 + 3 \\
 &\vdots \\
 ? &= 10^2 + 10
 \end{aligned}$$

Cevap: D

$$2. \quad \triangle \rightarrow 1, 3, 9, 27, 81$$

$$\Rightarrow 3^0, 3^1, 3^2, 3^3, 3^4, \dots$$

$$\square = \triangle \times 2 \Rightarrow \triangle = 81 \Rightarrow = 81 \cdot 2 = 162$$

(Solundaki üçgen içinin 2 katı)

Cevap: A

$$3. \quad \begin{array}{|c|c|} \hline 5 & 4 \\ \hline 6 & 3 \\ \hline \end{array} \rightarrow \left. \begin{array}{l} 5 \cdot 4 = 20 \\ 6 - 3 = 3 \end{array} \right\} \Rightarrow 20 - 3 = 17$$

$$\begin{array}{|c|c|} \hline 6 & 3 \\ \hline 5 & 1 \\ \hline \end{array} \rightarrow \left. \begin{array}{l} 6 \cdot 3 = 18 \\ 5 - 1 = 4 \end{array} \right\} \Rightarrow 18 - 4 = 14$$

$$\begin{array}{|c|c|} \hline 8 & 5 \\ \hline 2 & 1 \\ \hline \end{array} \rightarrow \left. \begin{array}{l} 8 \cdot 5 = 40 \\ 2 - 1 = 1 \end{array} \right\} \Rightarrow 40 - 1 = 39$$

$$\begin{array}{|c|c|} \hline 4 & 3 \\ \hline 5 & 4 \\ \hline \end{array} \rightarrow \left. \begin{array}{l} 4 \cdot 3 = 12 \\ 5 - 4 = 1 \end{array} \right\} \Rightarrow 12 - 1 = 11$$

Cevap: A

$$4. \quad \begin{array}{c} \text{a} \quad \text{b} \\ \text{x} \\ \text{c} \quad \text{d} \end{array} \rightarrow a \cdot b - c \cdot d = x$$

$$\Rightarrow \begin{array}{c} 10 \quad 3 \\ ? \\ 5 \quad 4 \end{array} \rightarrow 10 \cdot 3 - 5 \cdot 4 = 30 - 20 = 10$$

Cevap: D

$$5. \quad K=4 \quad I=2 \quad A=5 \quad S=6 \quad N=7 \quad M=3 \\ \Rightarrow \text{MASA} = 3565$$

Cevap: B

$$6. \quad A=7 \quad E=9 \quad F=2 \quad N=4 \quad R=5 \quad T=3 \\ \Rightarrow \text{TER} = 395$$

Cevap: B

$$7. \quad A=3 \quad E=5 \quad İ=6 \quad N=1 \quad Y=4 \quad Z=2 \\ \Rightarrow \text{NAZ} = 132$$

Cevap: A

$$8. \quad A=7 \quad H=6 \quad N=5 \quad R=8 \quad U=9 \\ \Rightarrow \text{RUH} = 896$$

Cevap: C

$$9. \quad A=5 \quad E=6 \quad İ=7 \quad M=4 \quad T=2 \quad Ş=3 \\ \Rightarrow \text{ŞEMA} = 3645$$

Cevap: E

$$10. \quad \triangle \rightarrow a, \bullet \rightarrow b, \square \rightarrow c$$

$$I. 3a = 2b \quad II. 3b = 2c \quad III. 2C = ?$$

$$\frac{a}{b} = \frac{2 \cdot 2k}{3 \cdot 2k} = \frac{4k}{6k} \quad \frac{b}{c} = \frac{2 \cdot 3}{3 \cdot 3} = \frac{6k}{9k}$$

$$\left. \begin{array}{l} \triangle = 4k \\ \bullet = 6k \\ \square = 9k \end{array} \right\} \Rightarrow 2c = 2 \cdot 9k = 18k$$

Seçeneklerden D seçeneği

$$\triangle \triangle \triangle = 4k + 4k + 4k + 6k = 18k$$

Cevap: D

11. ■ → a , ▲ → b , ● → c

I. a+b=2c , II. 3c=2b , III. b=?

$$\left. \begin{array}{l} \blacktriangle = 3k \\ \blacksquare = k \\ \bullet = 2k \end{array} \right\} \Rightarrow 1 \times \blacktriangle = 3k = 2k + k = 1 \times \bullet + 1 \times \blacksquare$$

Cevap: B

12. ⊕ → a , ⊗ → b , △ → c

I. 2a = b+2c , II. 3a = 2b+c , III. b=?

$$\left. \begin{array}{l} \triangle = k \\ \oplus = 3k \\ \otimes = 4k \end{array} \right\} \Rightarrow 1 \times \otimes = 4k = 3k + k = 1 \times \oplus + 1 \times \triangle$$

Cevap: A

13. a-3=10 ⇒ a=13

b+2=3 ⇒ b=1

⇒ 10 ⊕ 3 = 13 - 1 - 4 = 8

Cevap: C

14. a³=27 ⇒ a=3

$\sqrt[3]{b-1}=2 \Rightarrow b-1=8 \Rightarrow b=9$

⇒ 27 △ 2 = 3 + 9 + 1 = 13

Cevap: C

15. 6 □ 5 = 28 ⇒ (6+1)(5-1) = 28

7 □ 3 = 16 ⇒ (7+1)(3-1) = 16

8 □ 4 = 27 ⇒ (8+1)(4-1) = 27

⇒ a □ b = (a+1)(b-1)

Cevap: B

16. $\left. \begin{array}{l} 3a = 27 \Rightarrow a = 9 \\ 2b = 12 \Rightarrow b = 6 \end{array} \right\} \Rightarrow 27 \odot 12 = 9 + 6 = 15$

$$\left. \begin{array}{l} 3a = 3 \Rightarrow a = 1 \\ 2b = 4 \Rightarrow b = 2 \end{array} \right\} \Rightarrow 3 \odot 4 = 1 + 2 = 3$$

(27 ⊙ 15) □ (3 ⊙ 4) = 15 □ 3

⇒ 2a + 1 = 15 ⇒ 2a = 14 ⇒ a = 7

b + 1 = 3 ⇒ b = 2

⇒ 15 □ 3 = 7 - 2.2 = 7 - 4 = 3

Cevap: E

17. a + a = 3a - 8 ⇒ a = 8

b + b = a - 2 ⇒ 2b = 6 ⇒ b = 3

c + c = b + 5 ⇒ 2c = 8 ⇒ c = 4

Cevap: C

18. $\left. \begin{array}{l} b^2 = 2a \\ c^2 = 18a \end{array} \right\} \Rightarrow b^2 \cdot c^2 = 36a^2 \Rightarrow b \cdot c = 6a$

⇒ bc = 108 = 6a ⇒ a = 18

⇒ b² = 36 ⇒ b = 6

Cevap: E

19. $\left. \begin{array}{l} a + b = c + 7 \\ b + c = 4a - 7 \Rightarrow c + 7 = 4a - b \end{array} \right\} a + b = 4a - b \Rightarrow 2b = 3a$

⇒ a = 2k , b = 3k

⇒ a.b = 6k² = 96 ⇒ k² = 16 ⇒ k = 4

⇒ a = 8 , b = 12 ⇒ c + 7 = 8 + 12 ⇒ c = 13

Cevap: D

20. m + 1 + b = m + 5 ⇒ b = 4

n - 1 + d = n + 1 ⇒ d = 2

⇒ L = b:d ⇒ L = 4:2 = 2

Cevap: E

21. $\left. \begin{array}{l} a + b = 18 \\ a - b = 6 \end{array} \right\} 2a = 24 \quad a = 12 \Rightarrow b = 6$

⇒ a.c = 36 ⇒ 12.c = 36 ⇒ c = 3

⇒ c + d = 5 ⇒ 3 + d = 5 ⇒ d = 2

⇒ M = 6:2 = 3 , L = 3 - 2 = 1 ⇒ M + L = 4

Cevap: C

22. a - (n - 2) = -n + 7 ⇒ a - n + 2 = -n + 7 ⇒ a = 5

c - (k + 1) = -k + 7 ⇒ c - k - 1 = -k + 7 ⇒ c = 8

⇒ M = a.c = 40

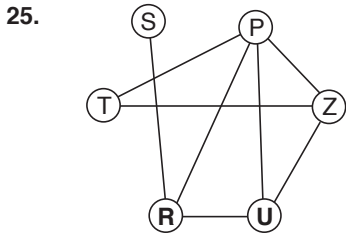
Cevap: E

23. $a + n + 2 = n + 20 \Rightarrow a = 18$
 $m - 2 + d = m + 4 \Rightarrow d = 6$
 $\Rightarrow K.L = (a:b).(b:d) = \frac{a}{b} \cdot \frac{b}{d} = \frac{a}{d} = \frac{18}{6} = 3$

Cevap: D

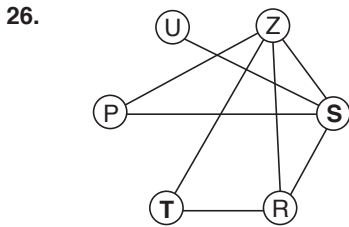
24. $a + n - 3 = n + 4 \Rightarrow a = 7$
 $a.c = 28 \Rightarrow c = 4$
 $\Rightarrow L + M = (c + d) + (c - d) = 2c = 8$

Cevap: A



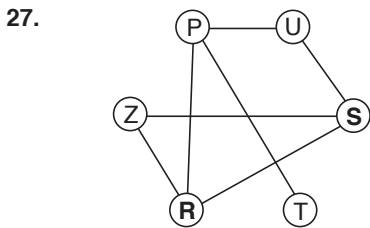
$\Rightarrow X = R ; Y = U$

Cevap: B



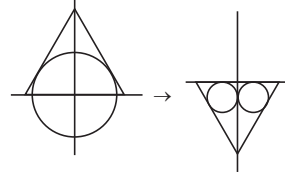
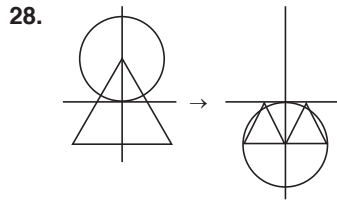
$\Rightarrow X = S ; Y = T$

Cevap: D

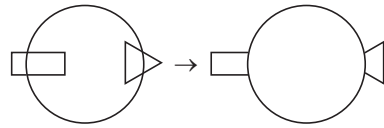
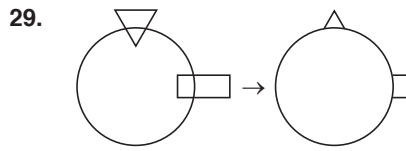


$\Rightarrow X = R ; Y = S$

Cevap: D

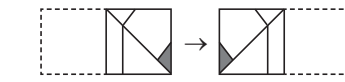


Cevap: A

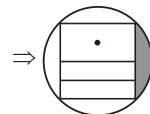
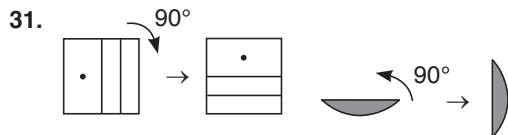


Cevap: B

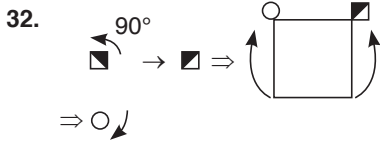
TASARI EĞİTİM YAYINLARI



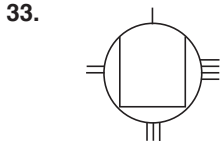
Cevap: C



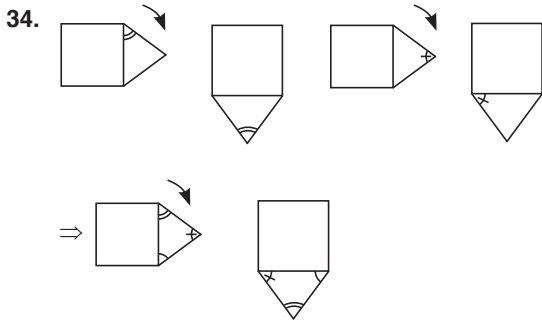
Cevap: A



Cevap: B



Cevap: C



Cevap: E

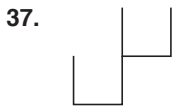


Cevap: D

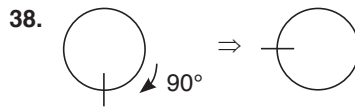
36. $A=3, B=5, C=6 \Rightarrow$

$$\begin{array}{r} 653 \\ 65 \\ + 6 \\ \hline 724 \end{array}$$

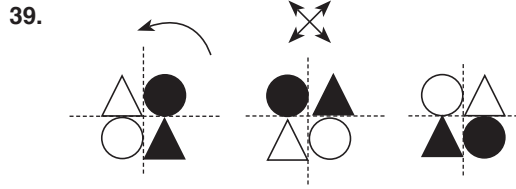
Cevap: E



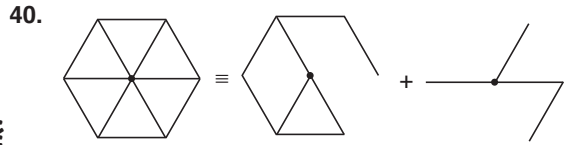
Cevap: B



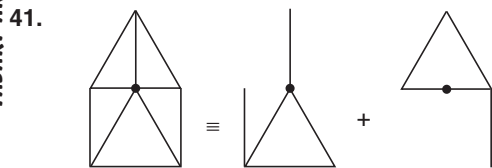
Cevap: E



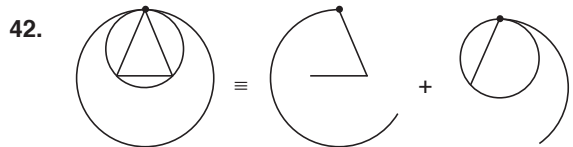
Cevap: D



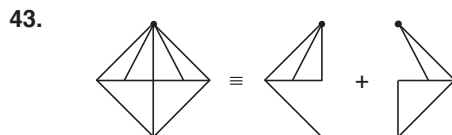
Cevap: C



Cevap: B



Cevap: C



Cevap: C

$$44. N \rightarrow 90^\circ \rightarrow 20 \rightarrow \frac{20}{90} = \frac{2}{9}$$

$$P \rightarrow 27^\circ \rightarrow 6 \rightarrow \frac{6}{27} = \frac{2}{9}$$

$$\rightarrow 90^\circ + 27^\circ + 72 + 45^\circ = 234^\circ$$

$$\rightarrow 360^\circ - 234^\circ = 126^\circ (T)$$

$$\rightarrow \frac{T}{126} = \frac{2}{9} \Rightarrow 9T = 252 \Rightarrow T = 28$$

Cevap: A

$$45. \left. \begin{array}{l} 3-1=2 \\ 2-1=1 \\ 4-3=1 \\ 5-2=3 \end{array} \right\}$$

Cevap: A

$$46. \frac{2^{x-7} (2^2 + 2^1 + 1)}{2^{x-10} (2^2 + 2^1 + 2)}$$

$$= \frac{2^{x-7}}{2^{x-10}} = 2^{x-7-x+10} = 2^3 = 8$$

Cevap: D

$$47. \frac{\sqrt{2}(\sqrt{2} + \sqrt{3}) + 3(\sqrt{2} + \sqrt{3})}{\sqrt{2} + \sqrt{3}} - \frac{2}{\sqrt{2}}$$

$$= \frac{(\sqrt{2} + \sqrt{3})(\sqrt{2} + 3)}{\sqrt{2} + \sqrt{3}} - \frac{2\sqrt{2}}{2}$$

$$= \sqrt{2} + 3 - \sqrt{2} = 3$$

Cevap: B

$$48. x = \sqrt{5} - \sqrt{2} - \sqrt{3}$$

$$y = \sqrt{3} + \sqrt{2} - \sqrt{5}$$

$$\Rightarrow y = -x$$

$$\frac{x^2 + y^2}{x \cdot y} = \frac{x^2}{xy} + \frac{y^2}{xy} = \frac{x}{y} + \frac{y}{x} = \frac{x}{-x} + \frac{-x}{x}$$

$$= -1 - 1 = -2$$

Cevap: D

$$49. \frac{10}{-1 + \frac{18}{1 + \frac{6}{x-2}}} = 2 \Rightarrow -1 + \frac{18}{1 + \frac{6}{x-2}} = 2$$

$$\frac{18}{1 + \frac{6}{x-2}} = 6 \Rightarrow 1 + \frac{6}{x-2} = 3 \Rightarrow \frac{6}{x-2} = 2$$

$$\Rightarrow x = 2$$

Cevap: E

$$50. \frac{(3^2 + 1)(3^4 - 3^2 + 1)}{3^4 - 8} + \frac{(2^4 - 1)(2^8 + 2^4 + 1)}{2^8 + 17}$$

$$= \frac{10 \cdot (3^4 - 8)}{3^4 - 8} + \frac{15 \cdot (2^8 + 17)}{2^8 + 17} = 25$$

Cevap: C

$$51. \frac{1}{x-5} = A \Rightarrow \frac{1}{x^2 - 10x + 25} = A^2$$

$$\Rightarrow A^2 + A = 0 \Rightarrow A(A+1) = 0$$

$$\Rightarrow A = 0, A = -1 \Rightarrow \frac{1}{x-5} \neq 0 \Rightarrow \frac{1}{x-5} = -1$$

$$\Rightarrow x - 5 = -1 \Rightarrow x = 4$$

Cevap: A

$$52. f(x) = |x - 3| - |2x + 6| = 0$$

$$\Rightarrow |x - 3| - |2x + 6| \Rightarrow x_1 - 3 = 2x_1 + 6,$$

$$x_2 - 3 = -2x_2 - 6$$

$$\Rightarrow x_1 = -9, 3x_2 = -3 \Rightarrow x_1 = -9, x_2 = -1$$

$$\Rightarrow x_1 + x_2 = -10$$

Cevap: A

$$53. \left. \begin{array}{l} 3a + \frac{2}{b} = 4 \Rightarrow \frac{3ab + 2}{b} = 4 \Rightarrow 3ab + 2 = 4b \\ b + \frac{2}{3a} = 3 \Rightarrow \frac{3ba + 2}{3a} = 3 \Rightarrow 3ab + 2 = 9a \end{array} \right\}$$

$$\Rightarrow 4b = 9a$$

$$\Rightarrow b = 9k \quad a = 4k \quad \frac{a}{b} = \frac{4}{9}$$

Cevap: B

$$54. \left(x - \frac{1}{2x}\right)^2 = 3^2 \Rightarrow x^2 + \frac{1}{4x^2} - 2 \cdot x \cdot \frac{1}{2x} = 9$$

$$x^2 + \frac{1}{4x^2} = 10 \Rightarrow 4 \cdot \left(x^2 + \frac{1}{4x^2}\right) = 4 \cdot 10$$

$$\Rightarrow 4x^2 + \frac{1}{x^2} = 40$$

Cevap: E

$$55. (x-1)(x^2+x+1) = 0 \cdot (x-1)$$

$$\Rightarrow x^3 - 1 = 0 \Rightarrow x^3 = 1$$

$$\Rightarrow x^{18} + x^{12} + x^8 + x = (x^3)^6 + (x^3)^4 + (x^3)^2 \cdot x^2 + x$$

$$= 1^6 + 1^4 + 1^2 \cdot x^2 + x = 1 + 1 + x^2 + x$$

$$\Rightarrow x^2 + x = -1 \Rightarrow 1 + 1 + x^2 + x = 1 + 1 - 1 = 1$$

Cevap: E

$$56. 2017 = x \quad 2016 = x - 1 \quad 2018 = x + 1 \quad 2019 = x + 2$$

$$\begin{vmatrix} 2017 & 2016 \\ 2018 & 2019 \end{vmatrix} = \begin{vmatrix} x & x-1 \\ x+1 & x+2 \end{vmatrix}$$

$$= x \cdot (x+2) - (x+1)(x-1) = x^2 + 2x - x^2 + 1$$

$$= 2x + 1 = 2 \cdot 2017 + 1 = 4035$$

Cevap: D

$$57. \vec{A} \parallel \vec{B} \Rightarrow \frac{k-3}{k-2} = \frac{k+1}{k-3} \Rightarrow k^2 - 6k + 9 = k^2 - k - 2$$

$$\Rightarrow 11 = 5k \Rightarrow k = \frac{11}{5}$$

Cevap: E

$$58. 3\vec{K} = (-3 \cdot 3, 4 \cdot 3) = (-9, 12)$$

$$4\vec{T} = (2 \cdot 4, -1 \cdot 4) = (8, -4)$$

$$\Rightarrow 3\vec{K} + 4\vec{T} = (-9, 12 - 4) = (-1, 8) = (a, b)$$

$$\Rightarrow a + b = -1 + 8 = 7$$

Cevap: D

$$59. f(2) = f(0+2) = 0 - 7 = -7$$

$$f(4) = f(2+2) = 2 - 7 = -5$$

$$f(5) = f(3+2) = 2 \cdot 3 + 1 = 7$$

$$f(6) = f(4+2) = 2 \cdot 4 + 1 = 9$$

$$(-7) + (-5) + (7) + (9) = 4$$

Cevap: C

$$60. \log_{\sqrt{3}}^9 = \log_{\frac{1}{3^2}}^{3^2} = \frac{2}{\frac{1}{3^2}} \log_3^3 = 2 \cdot \frac{2}{1} \cdot 1 = 4$$

$$\log_{\sqrt[3]{2}}^2 = \log_{\frac{1}{2^3}}^{2^1} = \frac{1}{\frac{1}{2^3}} \log_2^2 = 1 \cdot \frac{3}{1} \cdot 1 = 3$$

$$\log_{21}^{21} = 1$$

$$\Rightarrow \log_{\sqrt{3}}^9 + \log_{\sqrt[3]{2}}^2 - \log_{21}^{21} = 4 + 3 - 1 = 6$$

Cevap: B

$$61. \log_{25} = \log_{\frac{100}{4}} = \log_{100} - \log_4 = \log_{10^2} - \log_{2^2}$$

$$= 2\log_{10} - 2\log_2 = 2 \cdot 1 - 2x = 2 - 2x$$

Cevap: A

$$62. |(-1+i) - (3-2i)| = |-4+3i| = \sqrt{(-4)^2 + 3^2}$$

$$= \sqrt{25} = 5$$

Cevap: A

$$63. \frac{22}{\sqrt{7}-2i} + \frac{33}{\sqrt{7}+2i} - \sqrt{7} + 2i$$

$$= \frac{22(\sqrt{7}+2i)}{(\sqrt{7}-2i)(\sqrt{7}+2i)} + \frac{33(\sqrt{7}-2i)}{(\sqrt{7}+2i)(\sqrt{7}-2i)} - \sqrt{7} + 2i$$

$$= \frac{22(\sqrt{7}+2i)}{7+4} + \frac{33(\sqrt{7}-2i)}{7+4} - \sqrt{7} + 2i$$

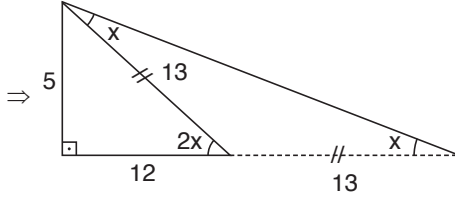
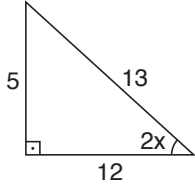
$$= 2 \cdot (\sqrt{7}+2i) + 3 \cdot (\sqrt{7}-2i) - \sqrt{7} + 2i$$

$$= 2\sqrt{7} + 4i + 3\sqrt{7} - 6i - \sqrt{7} + 2i$$

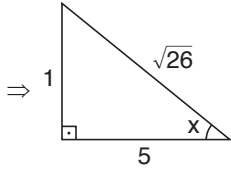
$$= 4\sqrt{7}$$

Cevap: C

64.



$$\Rightarrow \tan x = \frac{5}{25} = \frac{1}{5}$$



$$\Rightarrow \cos x = \frac{5}{\sqrt{26}} \Rightarrow \cos^2 x = \frac{25}{26}$$

Cevap: B

65.

$$\lim_{x \rightarrow \infty} \left(\frac{1}{x+1} + 5^{\frac{1}{x-2}} + \frac{2x+1}{x-2} \right) = ?$$

$$\lim_{x \rightarrow \infty} \left(\frac{1}{x+1} \right) = 0 \quad \lim_{x \rightarrow \infty} \left(5^{\frac{1}{x-2}} \right) = 5^0 = 1$$

$$\lim_{x \rightarrow \infty} \left(\frac{2x+1}{x-2} \right) = 2$$

$$\Rightarrow 0 + 1 + 2 = 3$$

Cevap: A

$$66. \lim_{x \rightarrow 0} \frac{\tan 3x + 5x}{\sin 2x} = \lim_{x \rightarrow 0} \left(\frac{\tan 3x}{\sin 2x} + \frac{5x}{\sin 2x} \right)$$

$$= \frac{3}{2} + \frac{5}{2} = \frac{8}{2} = 4$$

Cevap: E

$$67. 3.2 + a = 10 \Rightarrow a = 4$$

$$a.2 - c = 10 \Rightarrow 4.2 - c = 10 \Rightarrow c = -2$$

Cevap: D

$$68. f'(3x+1).3 = 8x+4 \Rightarrow x=1$$

$$f'(3.1+1).3 = 8.1+4$$

$$\Rightarrow f'(4).3 = 12 \Rightarrow f'(4) = 4$$

Cevap: B

$$69. f'(x) = 4\sin^3 x \cdot \cos x$$

$$f\left(\frac{\pi}{3}\right) = 4 \cdot \sin^3\left(\frac{\pi}{3}\right) \cos\left(\frac{\pi}{3}\right) = 4 \cdot \left(\frac{\sqrt{3}}{2}\right)^3 \cdot \left(\frac{1}{2}\right) = \frac{3\sqrt{3}}{4}$$

Cevap: D

$$70. f'(x) = \frac{1}{2\sqrt{2x^2-1}} \cdot 4x$$

$$f'(5) = \frac{1}{2\sqrt{2.25-1}} \cdot 4.5 = \frac{20}{2 \cdot \sqrt{49}} = \frac{10}{7}$$

Cevap: C

$$71. \int_0^3 |2x-2| dx = \int_0^1 |2x-2| dx + 1 \int_1^3 |2x-2| dx$$

$$= \int_0^1 (-2x+2) dx + \int_1^3 (2x-2) dx$$

$$= (-x^2+2x) \Big|_0^1 + (x^2-2x) \Big|_1^3$$

$$= (-1+2) - (0+0) + (9-6) - (1-2)$$

$$= 1+0+3+1 = 5$$

Cevap: E

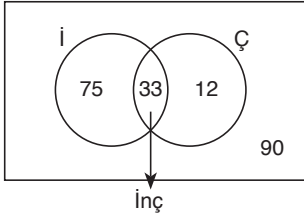
72. $\sin x = u \quad \cos x dx = du \quad , \quad \sin 0 = 0 \quad , \quad \sin \frac{\pi}{2} = 1$

$$\Rightarrow \int_0^{\frac{\pi}{2}} e^{\sin x} \cdot \cos x dx = \int_0^1 e^u \cdot du$$

$$= e^u \Big|_0^1 = e^1 - e^0 = e - 1$$

Cevap: A

73. Okul: 210



Her iki derse katılmayan 90 öğrenci vardır.

Cevap: D

	Cemre	Bariş
Bugün	x	x+3
3 yıl sonra	x+3	x+6

$$x + 3 + x + 6 = 69$$

$$2x + 9 = 69$$

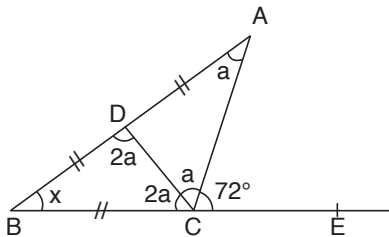
$$2x = 69 - 9$$

$$2x = 60$$

$$x = 30$$

Cevap: B

75.



$$m(\widehat{CAD}) = a \Rightarrow m(\widehat{DCA}) = a \Rightarrow m(\widehat{BDC}) = 2a$$

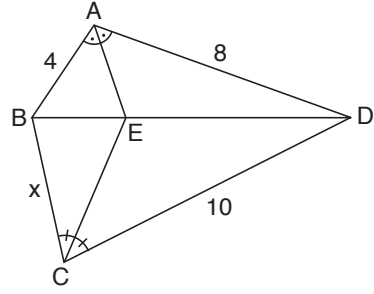
$$m(\widehat{BCD}) = 2a$$

$$72 + 3a = 180 \Rightarrow 3a = 108 \Rightarrow a = 36^\circ$$

$$x + a = 72 \Rightarrow x + 36 = 72 \Rightarrow x = 36^\circ$$

Cevap: D

76.



$$\frac{|AB|}{|AD|} = \frac{|BC|}{|CD|} \Rightarrow \frac{4}{8} = \frac{|BE|}{|ED|} \Rightarrow \frac{|BE|}{|ED|} = \frac{1}{2}$$

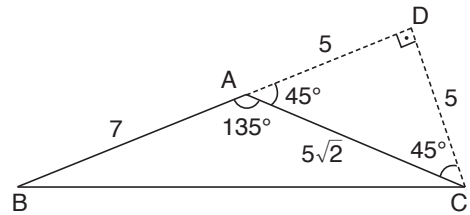
$$\frac{|BC|}{|CD|} = \frac{|BE|}{|ED|} \Rightarrow \frac{x}{10} = \frac{1}{2} \Rightarrow 2x = 10$$

$$\Rightarrow x = 5$$

Cevap: C

TASARI AKADEMİ YAYINLARI

77.



$$IBDI \perp ICDI \quad m(\widehat{CAD}) = 45^\circ$$

$$\Rightarrow |ADI| = 5 \quad |DCI| = 5$$

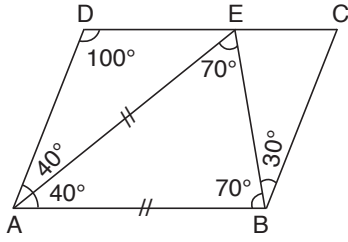
$$\Rightarrow |BCI|^2 = |BDI|^2 + |DCI|^2$$

$$\Rightarrow |BCI|^2 = 5^2 + 12^2 = 169$$

$$\Rightarrow |BCI| = 13$$

Cevap: E

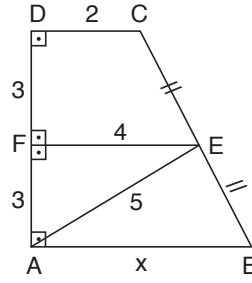
78.



$$\begin{aligned} IDCI // IABI &\Rightarrow m(\widehat{DAB}) = 180^\circ - 100^\circ = 80^\circ \\ \Rightarrow m(\widehat{DAE}) = m(\widehat{EAB}) &= 80:2 = 40^\circ \\ \Rightarrow m(\widehat{AEB}) = m(\widehat{ABE}) &= (180 - 40):2 = 70^\circ \\ \Rightarrow m(\widehat{CBE}) = m(\widehat{ABC}) - m(\widehat{ABE}) \\ x &= 100^\circ - 70^\circ = 30^\circ \end{aligned}$$

Cevap: B

80.

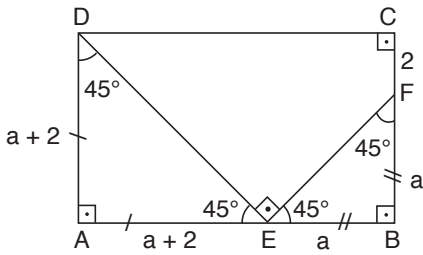


$$\begin{aligned} IFEI // IDCI &\Rightarrow IEFI \perp IADI \\ IECE = IEBI &\Rightarrow IFDI = IAFI = 3 \\ IAFI^2 + IEFI^2 &= IAEI^2 \\ 3^2 + IEFI^2 = 5^2 &\Rightarrow IEFI^2 = 16 \Rightarrow IEFI = 4 \\ IEFI = \frac{IDCI + IABI}{2} &\Rightarrow 4 = \frac{2+x}{2} \Rightarrow x+2 = 8 \\ \Rightarrow x &= 6 \end{aligned}$$

Cevap: C

TASARI EĞİTİM YAYINLARI

79.



$$\begin{aligned} AB // CD &\Rightarrow AB \perp CD \Rightarrow m(\widehat{B}) = 90^\circ \\ m(\widehat{FEB}) &= 90^\circ + 45^\circ = 180^\circ \\ \Rightarrow m(\widehat{FEB}) &= 45^\circ \\ \Rightarrow m(\widehat{AED}) = 45^\circ &\Rightarrow m(\widehat{ADE}) = 45^\circ \\ \Rightarrow IADI = IACI, IEBI = IBFI = a, &IADI = IBCI = a + 2 \\ \Rightarrow IABI + IBCI = 3a + 4 = 19 &\Rightarrow 3a = 15 \Rightarrow a = 5 \\ \Rightarrow IADI = 7 = IAEI &\Rightarrow IDEI = IADI \cdot \sqrt{2} = 7\sqrt{2} \end{aligned}$$

Cevap: E