

Deneme Sınavı
Trial Exam

4

ÇÖZÜMLER

TAMAMI VIDEO ÇÖZÜMLÜ

VIDEO ÇÖZÜM UYGULAMASI İÇİN



1. $\left. \begin{array}{l} \text{AB}(\text{i})\text{YE} \\ \text{YBORI} \\ \text{OBLKI} \\ \text{KB}(\text{i})\text{EY} \\ \text{LBYI}(\text{i}) \end{array} \right\} \Rightarrow \left\{ \begin{array}{l} 51897 \\ 01(\text{2})34 \\ 8137(\text{2}) \\ 31567 \\ 91(\text{2})43 \Rightarrow i = 2 \end{array} \right.$

$\begin{array}{l} \dot{I} = 2 \quad I = 7 \quad B = 1 \quad Y = 3 \quad L = 8 \\ O = 5 \quad R = 6 \quad K = 9 \quad E = 4 \quad A = 0 \end{array}$

ABİYE \rightarrow 01234

YBORI \rightarrow 31567

OBLKI \rightarrow 51897

KBİEY \rightarrow 91243

LBYİİ \rightarrow 81372

O halde YEBOR 34156

2. $5, \quad 6, \quad 10, \quad 19, \quad (35), \quad 60, \quad 96$
 $\begin{array}{cccccc} +1^2 & +2^2 & +3^2 & +4^2 & +5^2 & +6^2 \end{array}$
 $? = 35$

3. $\Delta = x \quad \circ = y \quad \square = z$
 $\Rightarrow x + 2y = z$ (I.), $x + z = 3y$ (II.)
 $\Rightarrow x + (x + 2y) = 3y \quad 2x = y$
 $\Rightarrow \Delta \Delta = \circ$

4. $\diamond = 7, \quad * = 9, \quad \Delta = 5, \quad \square = 1, \quad \circ = 2$
 $\Rightarrow \diamond \square \circ = 712$

5. $\bullet = 9, \quad \circ = 1, \quad \Delta = 2, \quad * = 3, \quad \square = 4, \quad \blacktriangle = 7$
 $\Rightarrow \blacktriangle * \Delta = 732$

6. $\square = 3, \quad \blacktriangle = 7, \quad \circ = 6, \quad \Delta = 4, \quad \bullet = 8, \quad \blacksquare = 5$
 $\Rightarrow \bullet \blacktriangle \circ = 876$

Cevap: C

7. $\Delta = 5, \quad \circ = 3, \quad \square = 2, \quad \triangle = 9, \quad \oplus = 1, \quad \boxplus = 7$
 $\Rightarrow \triangle \Delta \square = 952$

Cevap: E

8. $\frac{1}{2} + \frac{1}{3} \cdot \frac{1}{1 \oplus 2} = 1 + 2 - 1$
 $\Rightarrow \frac{1}{3 \cdot (1 \oplus 2)} = 2 - \frac{1}{2} \Rightarrow \frac{1}{3 \cdot (1 \oplus 2)} = \frac{3}{2}$
 $\Rightarrow 9 \cdot (1 \oplus 2) = 2 \Rightarrow 1 \oplus 2 = \frac{2}{9}$

Cevap: E

Cevap: C

Cevap: C

Cevap: A

Cevap: D

Cevap: A

9. $\frac{1}{a} = \frac{1}{2} \Rightarrow a = 2$
 $\sqrt[3]{b} = \frac{1}{3} \Rightarrow b = \frac{1}{27}$
 $\frac{1}{a} \otimes \sqrt[3]{b} = a - 3b$
 $\Rightarrow \frac{1}{2} \otimes \frac{1}{3} = 2 - 3 \cdot \frac{1}{27} = 2 - \frac{1}{9} = \frac{17}{9}$

Cevap: A

10. $(a + 2) \Delta (b - 1) = 2a - b$
 $(3 \Delta (-3)) \rightarrow a + 2 = 3 \Rightarrow a = 1$
 $b - 1 = -3 \Rightarrow b = -2$
 $\Rightarrow (1 + 2) \Delta (-2 - 1) = 2 \cdot 1 - (-2) \Rightarrow 3 \Delta (-3) = 4$
 $(a - 1) \square (b + 1) = a + 2b$
 $\downarrow \quad \downarrow$
 $\Rightarrow (3 - 1) \square (3 + 1) = 3 + 2 \cdot 3 = 9 \Rightarrow 2 \square 4 = 9$
 $\Rightarrow 2 \square (3 \Delta (-3)) = 9$

Cevap: B

$$11. I. (a + b) \odot (a - b) = \frac{a}{b}$$

$$9 \odot 3 \rightarrow \left. \begin{array}{l} a + b = 9 \\ a - b = 3 \end{array} \right\} \rightarrow 2a = 12 \rightarrow a = 6 \rightarrow b = 3$$

$$\rightarrow (6 + 3) \odot (6 - 3) = \frac{6}{3} \rightarrow 9 \odot 3 = 2$$

$$\rightarrow 1 \diamond (9 \odot 3) = 1 \diamond 2$$

$$\rightarrow (a - 3) \diamond (b - 2) = a.b$$

$$\rightarrow (4 - 3) \diamond (4 - 2) = 4.4$$

$$\rightarrow 1 \diamond 2 = 16$$

Cevap: D

$$12. a + b = 4a \Rightarrow b = 3a$$

$$b + b = 12 \Rightarrow b = 6 \quad a = 2$$

$$c + a = b \Rightarrow c + 2 = 6 \Rightarrow c = 4$$

Cevap: E

$$13. b^2 = 4a^2 \Rightarrow b = 2a$$

$$c.c = b \Rightarrow b = c^2 \Rightarrow c^2 = 2a \Rightarrow a = \frac{c^2}{2}$$

$$c.a = 32 \Rightarrow c \cdot \frac{c^2}{2} = 32 \Rightarrow c^3 = 64 \Rightarrow c = 4 \Rightarrow b = 16$$

Cevap: C

$$14. a^2 = 21 - c, a.b = 23 + c \quad a^2 + ab = 21 - c + 23 + c$$

$$\Rightarrow a(a + b) = 44$$

$$a + b = 11 \Rightarrow a.11 = 44 \Rightarrow a = 4 \Rightarrow b = 7 \Rightarrow c = 5$$

$$\Rightarrow b + c = 12$$

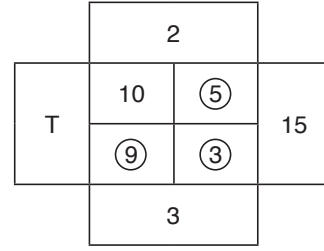
Cevap: C

$$15. 12 = 2(a + 1) \Rightarrow a = 5$$

$$T = 3.(a + 2) \Rightarrow T = 21$$

Cevap: B

16.



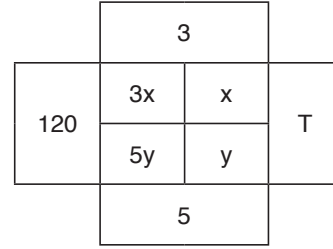
$$10:5 = 2$$

$$5.3 = 15$$

$$9:3 = 3 \Rightarrow T = 10.9 = 90$$

Cevap: E

17.



$$3x:x = 3$$

$$5y:y = 5$$

$$120 = 3x.5y \Rightarrow xy = 8$$

$$\Rightarrow T = 8$$

Cevap: A

$$18. K = 6 + 4 = 10, L = 5 + 3 = 8$$

Cevap: A

$$19. K = 3.1 = 3, L = 14.6 = 84$$

Cevap: C

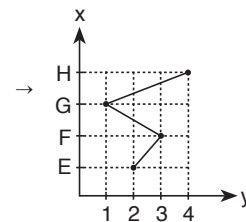
20.

$$E \rightarrow 2$$

$$F \rightarrow 3$$

$$G \rightarrow 1$$

$$H \rightarrow 4$$



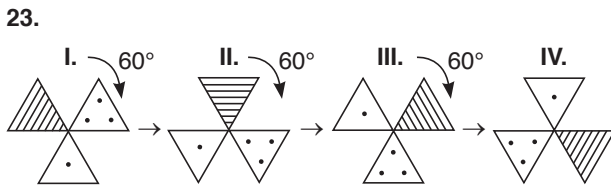
Cevap: B

21. A: $\triangle = 3$, $\circ = 2$, $\square = 2$, $\nabla = 0$, $\sqcup = 0$, $\square = 0$
 B: $\triangle = 0$, $\circ = 3$, $\square = 0$, $\nabla = 3$, $\sqcup = 0$, $\square = 1$
 $\Rightarrow ? = \square$

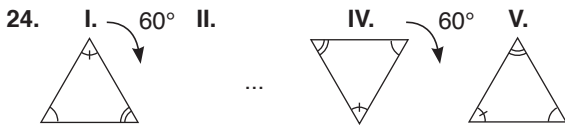
Cevap: B

22. $K = 2x$, $L = x$, $M = 5x$, $N = 4x$
 $\Rightarrow 2x + x + 5x + 4x = 360^\circ$
 $\Rightarrow 12x = 360^\circ \Rightarrow x = 30^\circ$
 $\Rightarrow K = 60^\circ$, $L = 30^\circ$, $M = 150^\circ$, $N = 120^\circ$

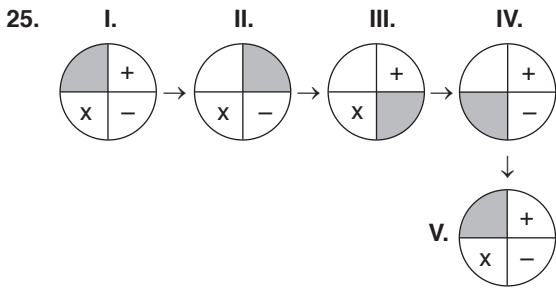
Cevap: E



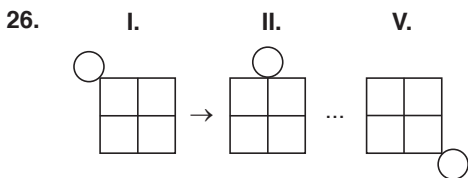
Cevap: D



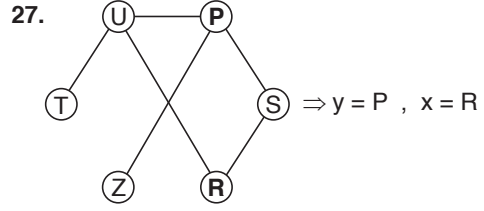
Cevap: C



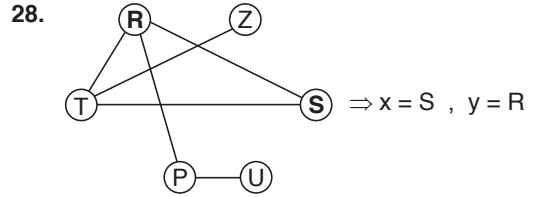
Cevap: D



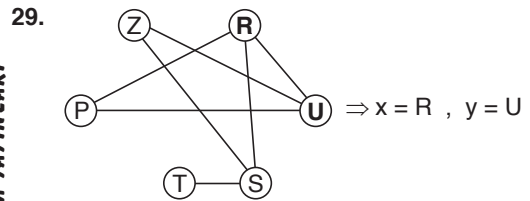
Cevap: A



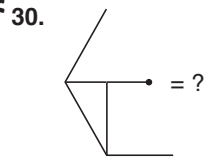
Cevap: C



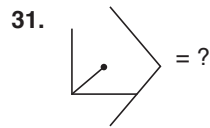
Cevap: B



Cevap: E



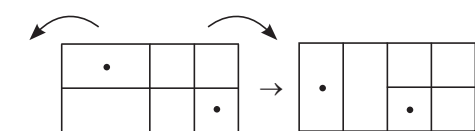
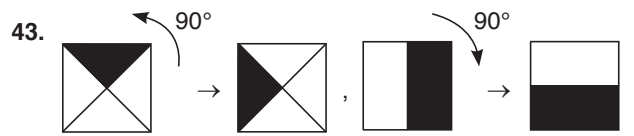
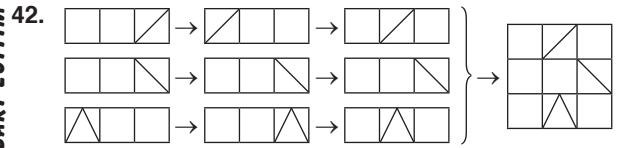
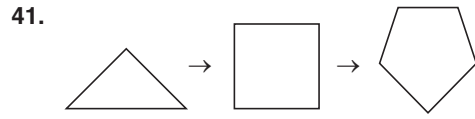
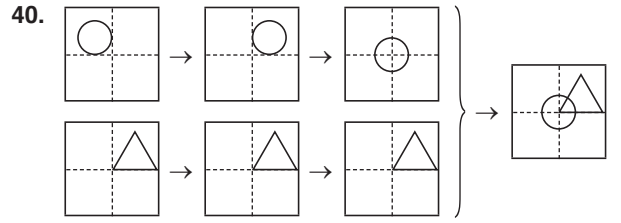
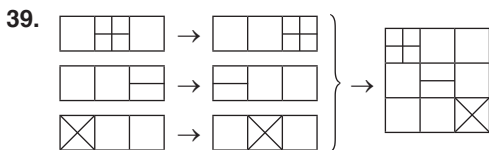
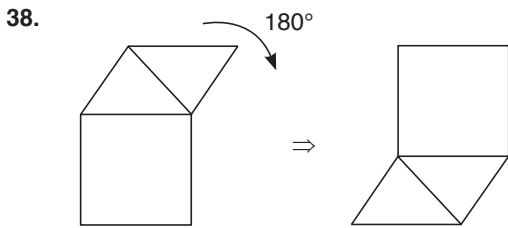
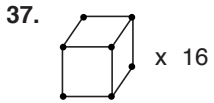
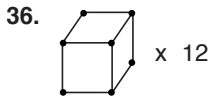
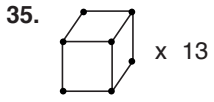
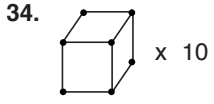
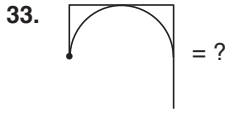
Cevap: D



Cevap: A



Cevap: D



Cevap: B

Cevap: E

Cevap: C

Cevap: B

Cevap: A

Cevap: E

Cevap: C

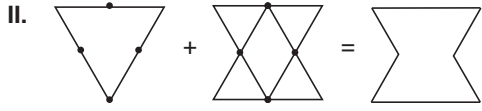
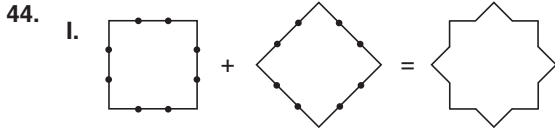
Cevap: D

Cevap: D

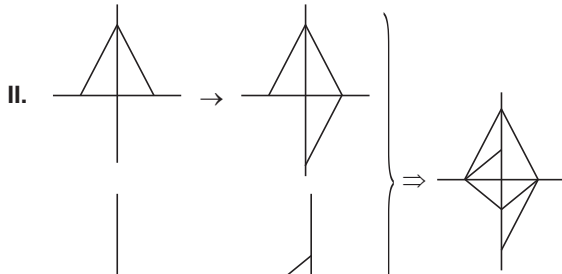
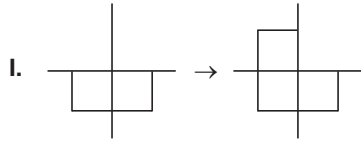
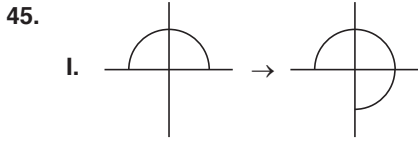
Cevap: C

Cevap: E

TASARI EĞİTİM YAYINLARI



Cevap: A



Cevap: B

46. $\sqrt{\frac{4}{10}} + \sqrt{\frac{9}{10}} + \sqrt{\frac{25}{10}} = \frac{2}{\sqrt{10}} + \frac{3}{\sqrt{10}} + \frac{5}{\sqrt{10}}$
 $= \frac{10}{\sqrt{10}} = \frac{10\sqrt{10}}{10} = \sqrt{10}$

Cevap: C

47. $\sqrt{8+2\sqrt{15}} = \sqrt{5} + \sqrt{3}$ $\sqrt{8-2\sqrt{15}} = \sqrt{5} - \sqrt{3}$
 $\sqrt{3+5} \quad \sqrt{3.5} \quad \sqrt{3+5} \quad \sqrt{3.5}$
 $\sqrt{5} + \sqrt{3} - (\sqrt{5} - \sqrt{3}) = \sqrt{5} + \sqrt{3} - \sqrt{5} + \sqrt{3} = 2\sqrt{3}$

Cevap: C

48. $\left. \begin{matrix} 2^{2x} = 3^3 \\ 2^1 = 3^y \end{matrix} \right\} \rightarrow \frac{2x}{1} = \frac{3}{y} \rightarrow 2xy = 3 \rightarrow xy = \frac{3}{2}$
 $25^{xy} = 5^{2xy} = 5^{2 \cdot \frac{3}{2}} = 5^3 = 125$

Cevap: D

49. $\frac{9}{\sqrt{5}-\sqrt{2}} + \frac{12}{\sqrt{5}+\sqrt{2}} - (7\sqrt{5} - \sqrt{4.2})$
 $(\sqrt{5}+\sqrt{2}) \quad (\sqrt{5}-\sqrt{2})$
 $= \frac{9(\sqrt{5}+\sqrt{2})}{5-2} + \frac{12(\sqrt{5}-\sqrt{2})}{5-2} - 7\sqrt{5} + 2\sqrt{2}$
 $= \frac{9 \cdot (\sqrt{5}+\sqrt{2})}{3} + \frac{12(\sqrt{5}-\sqrt{2})}{3} - 7\sqrt{5} + 2\sqrt{2}$
 $= 3\sqrt{5} + 3\sqrt{2} + 4\sqrt{5} - 4\sqrt{2} - 7\sqrt{5} + 2\sqrt{2}$
 $= \sqrt{2}$

Cevap: A

50. $\frac{10.9! + 9!}{10.9! - 9!} = \frac{9!(10+1)}{9!(10-1)} = \frac{11}{9}$

Cevap: B

51. $3^{x+2} + 3^{x+1} = 3^1 \cdot 3^{x+1} + 3^{x+1} = 3^{x+1}(3+1)$
 $= 4 \cdot 3^{x+1} = \frac{4}{3^5} \Rightarrow 4 \cdot 3^{x+1} = 4 \cdot 3^{-5}$
 $\Rightarrow x+1 = -5 \quad x = -6$

Cevap: D

52. $5^{x+1} \cdot 5^{2y} = 5^3 \Rightarrow x+1+2y=3 \Rightarrow x+2y=2 \dots I.$
 $2^{2x} \cdot 2^y = 2^2 \Rightarrow 2x+y=2 \dots II.$
 I. $x+2y=2$
 III. $+ \quad 2x+y=2$
 $\quad \quad \quad 3x+3y=4 \Rightarrow x+y = \frac{4}{3}$

Cevap: A

$$\begin{aligned}
 53. \quad \left. \begin{array}{l} 3,43 = a \\ 1,57 = b \end{array} \right\} &\Rightarrow (3,43 - 1,57)^2 + 4 \cdot 3,43 \cdot 1,57 \\
 &= (a - b)^2 + 4ab \\
 &= a^2 - 2ab + b^2 + 4ab \\
 &= a^2 + 2ab + b^2 = (a + b)^2 = 5^2 = 25
 \end{aligned}$$

Cevap: B

$$\begin{aligned}
 54. \quad \frac{x^2 - (y^2 + 4y + 4)}{x + y + 2} + x + 2 &= \frac{x^2 - (y + 2)^2}{x + y + 2} + x + 2 \\
 &= \frac{(x - y - 2)(x + y + 2)}{x + y + 2} + x + 2 \\
 &= x - y - 2 + x + 2 \\
 &= 2x - y
 \end{aligned}$$

Cevap: E

$$\begin{aligned}
 55. \quad (f \circ g)(6) &= f(g(6)) = ? \\
 x - 1 = 6, x = 7 &\Rightarrow g(7 - 1) = 2 \cdot 7 + 1 \Rightarrow g(6) = 15 \\
 \Rightarrow f(15) &= ? \\
 x + 1 = 15 &\Rightarrow x = 14 \Rightarrow f(14 + 1) = 3 \cdot 14 - 1 \\
 \Rightarrow f(15) &= 42 - 1 = 41 \\
 f(15) = f(g(6)) &= (f \circ g)(6) = 41
 \end{aligned}$$

Cevap: E

$$\begin{aligned}
 56. \quad f(x + 2) &= f(x) + 7, f(7) = 11 \\
 x = 7, f(9) &= f(7) + 7 = 11 + 7 = 18 \\
 x = 9, f(11) &= f(9) + 7 = 18 + 7 = 25
 \end{aligned}$$

Cevap: B

$$57. \quad z = \frac{4 + 7i}{2 + i} = \frac{8 + 14i - 4i + 7}{5} = \frac{15 + 10i}{5} = 3 + 2i$$

$$\begin{aligned}
 z \cdot (1 + i) &= (3 + 2i)(1 + i) = 3 + 3i + 2i + 2i^2 \\
 &= 3 + 5i - 2 = 1 + 5i
 \end{aligned}$$

Cevap: B

$$\begin{aligned}
 58. \quad x_1 + x_2 &= -3, x_1 \cdot x_2 = -2 \\
 x_1^2 + x_2^2 &= (x_1 + x_2)^2 - 2x_1x_2 = (-3)^2 - 2 \cdot (-2) = 9 + 4 = 13
 \end{aligned}$$

Cevap: C

$$\begin{aligned}
 59. \quad x^3 + \frac{1}{x^3} &= \left(x + \frac{1}{x}\right)^3 - 3x \cdot \frac{1}{x} \cdot \left(x + \frac{1}{x}\right) \\
 &= 4^3 - 3 \cdot 4 = 64 - 12 = 52
 \end{aligned}$$

Cevap: A

$$\begin{aligned}
 60. \quad \left| \frac{z_1 \cdot z_3}{z_2} \right| &= \frac{|z_1| \cdot |z_3|}{|z_2|} = \frac{\sqrt{3^2 + 1^2} \cdot \sqrt{5^2 + 12^2}}{\sqrt{2^2 + 1^2}} \\
 &= \frac{\sqrt{10} \cdot \sqrt{169}}{\sqrt{5}} = 13\sqrt{2}
 \end{aligned}$$

Cevap: A

$$\begin{aligned}
 61. \quad \cos 40 &= 1 - \sin^2 20^\circ, \sin 40 = 2 \sin 20^\circ \cdot \cos 20^\circ \\
 \Rightarrow \frac{1 - \cos 40}{\sin 40} &= \frac{1 - (1 - 2\sin^2 20)}{2\sin 20 \cdot \cos 20} \\
 &= \frac{2\sin^2 20}{2\sin 20 \cdot \cos 20} = \frac{\sin 20}{\cos 20} = \tan 20 \\
 &= \cot = 70
 \end{aligned}$$

Cevap: C

$$\begin{aligned}
 62. \quad IACI^2 &= IABI^2 + IBCI^2 \Rightarrow IACI^2 = 4^2 + 3^2 \Rightarrow IACI^2 = 25 \\
 IACI &= 5
 \end{aligned}$$

$$\sin(\widehat{DCE}) = \sin(\widehat{ACB}) = \frac{4}{5}$$

$$A(\widehat{CED}) = \frac{1}{2} \cdot |CD| \cdot |CE| \cdot \sin(\widehat{DCE})$$

$$= \frac{1}{2} \cdot \frac{5}{2} \cdot 3 \cdot \frac{4}{5} = 3 \text{ cm}^2$$

Cevap: D

$$\begin{aligned}
 63. \quad \cos 50 + \cos 40 &= 2 \cdot \cos\left(\frac{50 + 40}{2}\right) \cdot \cos\left(\frac{50 - 40}{2}\right) \\
 &= 2 \cdot \cos 45 \cdot \cos 5
 \end{aligned}$$

$$\begin{aligned}
 \sin 50 + \sin 40 &= 2 \cdot \sin\left(\frac{50 + 40}{2}\right) \cdot \cos\left(\frac{50 - 40}{2}\right) \\
 &= 2 \cdot \sin 45 \cdot \cos 5
 \end{aligned}$$

$$\Rightarrow \frac{\cos 50^\circ + \cos 40^\circ}{\sin 50^\circ + \sin 40^\circ} = \frac{2 \cdot \cos 45 \cdot \cos 5}{2 \cdot \sin 45 \cdot \cos 5}$$

$$= \frac{\cos 45}{\sin 45} = \cot 45 = 1$$

Cevap: E

$$64. \lim_{x \rightarrow 1} f(x) = 9 \Rightarrow \lim_{x \rightarrow 1^-} f(x) = \lim_{x \rightarrow 1^+} f(x) = 9$$

$$\Rightarrow \lim_{x \rightarrow 1^-} f(x) = a + b = 9$$

$$\Rightarrow \lim_{x \rightarrow 1^+} f(x) = 3c + 2a + 2b = 3c + 2(a + b)$$

$$\Rightarrow 3c + 2.9 = 3c + 18$$

$$\Rightarrow 3c + 18 = 9 \Rightarrow 3c = -9 \Rightarrow c = -3$$

Cevap: E

$$65. \lim_{x \rightarrow 2} \frac{x^2 - x - 2}{\sqrt{x+7} - 3} = \frac{0}{0}$$

(L' Hospital)

$$\lim_{x \rightarrow 2} \frac{x^2 - x - 2}{\sqrt{x+7} - 3} = \lim_{x \rightarrow 2} \frac{2x - 1}{\frac{1}{2\sqrt{x+7}}} = \frac{3}{\frac{1}{6}} = 18$$

Cevap: D

$$66. \lim_{x \rightarrow 0} \frac{f(x) - f(0)}{x} = f'(0)$$

$$\Rightarrow f'(x) = -3 \sin 3x$$

$$\Rightarrow f'(0) = \frac{-3 \sin 0}{0} = 0$$

Cevap: C

$$67. f(x) = (x^3 - 1) \cdot [(x^2 + x + 1) - (x^2 + 4x - 3)]$$

$$\Rightarrow f(x) = (x^3 - 1) \cdot [x^2 + x + 1 - x^2 - 4x + 3]$$

$$\Rightarrow f(x) = (x^3 - 1) \cdot (-3x + 4)$$

$$\Rightarrow f'(x) = 3x^2 \cdot (-3x + 4) + (-3) \cdot (x^3 - 1)$$

$$\Rightarrow f'(1) = 3 \cdot 1 \cdot 1 + (-3) \cdot 0 = 3 + 0 = 3$$

Cevap: B

$$68. f(x) = \ln\left(\frac{x^3 + 1}{2x + 1}\right) - (\ln(x + 1) - \ln(x^2 - x + 1))$$

$$= \ln\left(\frac{x^3 + 1}{2x + 1}\right) - \ln(x + 1) + \ln(x^2 - x + 1)$$

$$= \ln(x^3 + 1) - \ln(2x + 1) - \ln(x + 1) + \ln(x^2 - x + 1)$$

$$= -\ln(2x + 1)$$

$$\Rightarrow f'(x) = -\frac{2}{2x + 1} \Rightarrow f'(2) = -\frac{2}{5}$$

Cevap: C

$$69. f'(x) = \frac{(2x + 3)(x^2 - 3x + 4) - (2x - 3)(x^2 + 3x + 1)}{(x^2 - 3x + 4)^2}$$

$$\Rightarrow f'(1) = \frac{5 \cdot 2 - (-1) \cdot 5}{2^2} = \frac{10 + 5}{4} = \frac{15}{4}$$

Cevap: B

$$70. x^2 = u$$

$$2x dx = du \Rightarrow x dx = \frac{du}{2}$$

$$\Rightarrow \int_1^2 e^{x^2} \cdot x dx = \int_1^4 e^u \frac{du}{2} = \frac{1}{2} \int_1^4 e^u du = \frac{1}{2} e^u \Big|_1^4$$

$$= \frac{e^4}{2} - \frac{e}{2}$$

Cevap: C

71. Kız öğrenci sayısı x olsun.
Erkek öğrenci sayısı: $2x - 5$ tir.
Sınıf mevcudu 22 ise
 $x + 2x - 5 = 22$
 $3x = 22 + 5 = 27$
 $x = 9$ kız öğrenci sayısıdır.

Cevap: B

72. Gömleğin alış fiyatı $100x$ olsun.
%20 kârlı satışı $100x + 100x \cdot \frac{20}{100} = 120x$
Satış fiyatı $57 + 3 = 60$ TL
 $120x = 60$
 $x = \frac{60}{120} = \frac{1}{2}$
Alış fiyatı: $100x = 100 \cdot \frac{1}{2} = 50$ TL

Cevap: A

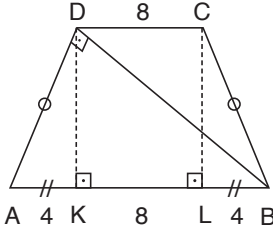
$$73. S_1 = \int_{-1}^0 x^4 dx = \frac{x^5}{5} \Big|_{-1}^0 = 0 - \frac{-1}{5} = \frac{1}{5}$$

$$S_2 = \int_0^2 x^4 dx = \frac{x^5}{5} \Big|_0^2 = \frac{32}{5} - 0 = \frac{32}{5}$$

$$\rightarrow S_1 + S_2 = \frac{33}{5}$$

Cevap: D

74.



$$IDBI = \sqrt{16 \cdot 2} = 4\sqrt{2} = 8\sqrt{3}$$

$IDKI \perp IABI$
 $CL \perp AB$
 $IDGI = IKLI = 8$
 $IAKI = ILBI = 4$
 $IDBI^2 = IBKI \cdot IBAI$
 $IDBI^2 = 12 \cdot 16$

Cevap: E

75. $\frac{|BC|}{|BD|} = \frac{4}{6} = \frac{2}{3} \Rightarrow |BC| = 2k \Rightarrow |BD| = 3k$

$\Rightarrow |CD| = k$

$\Rightarrow A(\widehat{ABC}) = 2 \cdot A(\widehat{ACD}) = 2 \cdot \frac{6 \cdot 4}{2} = 24 \text{ cm}^2$

Cevap: E

76. $\vec{A} \perp \vec{B} \Rightarrow 2 \cdot 4 + (-3) \cdot (t - 1) = 0$

$\Rightarrow 8 - 3t + 3 = 0 \Rightarrow 11 = 3t \Rightarrow t = \frac{11}{3}$

Cevap: D

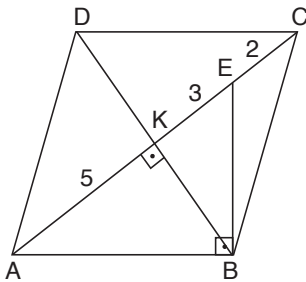
77. $A = \begin{bmatrix} k & p \\ m & n \end{bmatrix} = k \cdot n - m \cdot p = 5$

$\begin{vmatrix} 4p & 3k \\ 4n & 3m \end{vmatrix} = 12mp - 12kn = -12(kn - mp)$

$= -12 \cdot 5 = -60$

Cevap: E

78.



$|ABI| = |BCI| = |CDI| = |ADI| \Rightarrow |ABI| \perp |BEI|$

$|ACI| \cap |BDI| = \{K\} \Rightarrow |AKI| = |BKI| = 5 \text{ cm} \Rightarrow |EKI| = 3 \text{ cm}$

$|BEI|^2 = |EKI| \cdot |AEI| \Rightarrow |BEI|^2 = 3 \cdot 8 \Rightarrow |BEI| = \sqrt{24} = 2\sqrt{6}$

Cevap: B

79. $\widehat{ABC} \sim \widehat{AED} \Rightarrow \frac{|AB|}{|AE|} = \frac{|AC|}{|AD|} = \frac{|BC|}{|ED|}$

$\Rightarrow \frac{|AB|}{2} = \frac{|AC|}{4} = \frac{9}{3} = 3$

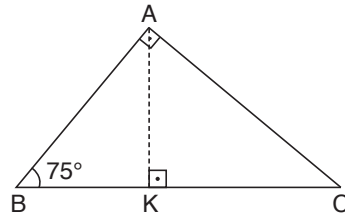
$\Rightarrow \frac{|AB|}{2} = 3, \frac{|AC|}{4} = 3 \Rightarrow |AB| = 6, |AC| = 12$

$\Rightarrow |BD| = 6 + 4 = 2 \text{ cm}, |EC| = 12 - 2 = 10 \text{ cm}$

$\Rightarrow 10 - 2 = 8 \text{ cm}$

Cevap: A

80.



$|AKI| \perp |BCI|$

$|AKI| = h \text{ cm} \Rightarrow |BCI| = 4h \text{ cm}$

$\Rightarrow 4h = 20 \text{ cm} \Rightarrow h = 5 \text{ cm}$

$A(\widehat{ABC}) = \frac{|BCI| \cdot |AKI|}{2} = \frac{20 \cdot 5}{2} = \frac{100}{2} = 50 \text{ cm}^2$

Cevap: C