1.SORU

$p(x+1)+p(x)=x^2-mx+m+6$

$p(2)=?$

2.SORU

$2-\sqrt{9-\frac{9}{x}}=\sqrt{4-\frac{4}{x}}+\sqrt{1-\frac{1}{x}}$

$x+\frac{23}{8}=?$

3.SORU

$\sqrt{4x^2-12xy+9y^2}+|2x-3|=0$

$x+y=?$

4.SORU

$x^2.y + y^2.x = 30$
$x.y + x + y = 11$
$y > 2$
$3x^2 + 2y^2 = ?$

5.SORU

$(a_n) = \frac{2^{2n}}{5^n}$

$\frac{3(a_1 + a_2 + \ldots + a_{10})}{5} + \frac{12}{5} \cdot (\frac{4}{5})^{10} = ?$

6.SORU

$f(x+1) = f(x) + x + 1$
$f(1) = 1$
$(fof)_{(2)} = ?$

7.SORU

$x^2 = 4^5 + 4^n + 2^{13}$, $x \in z$
$n = ?$

8.SORU

$17! + 1 < p \leq 17! + 17$
p asal sayi ise kac farkli p sayisi vardir ?

9.SORU

$$(1 - \frac{1}{1 - \frac{1}{1-i}})^{15} = ?$$

10.SORU

$f(x) = \ln\left[sin^2\left(x - \frac{12}{2}\right)\right] + e^{3\left(x-\frac{12}{2}\right)}$

$f'\left(\frac{12}{2}\right) = ?$

11.SORU

$3^x = 125$

$5^y = 81$

$x.y = ?$

12.SORU

$\log_4 \sqrt{8\sqrt{4\sqrt{2}}} = ?$

13.SORU

$$\lim_{x \to 8} \frac{x-8}{\sqrt[3]{x}-2} = ?$$

14.SORU

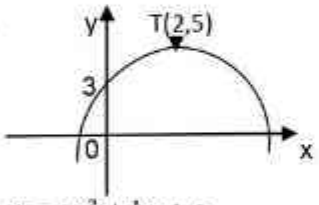
$$\frac{18}{3.4} + \frac{18}{4.5} + \frac{18}{5.6} + \ldots + \frac{18}{17.18} = ?$$

ÖRNEK SORULAR:

1. $\frac{X^2-x-2}{X^3+2X^2+X} \cdot \frac{X^3-X}{X^2-5X+6} = ?$

a) $\frac{X+1}{X-3}$ b) $\frac{X-1}{X-3}$ c) $\frac{X-2}{X-3}$ d) $\frac{X}{X-3}$ e) $\frac{X-1}{X+1}$

Cevap: b

2. 

$y = ax^2 + bx + c$
$b = ?$

a) -2 b) -1 c) $\frac{1}{2}$ d) 1 e) 2

Cevap: e

3. $\lim_{x \to 8} \frac{\sqrt[3]{X}-2}{\sqrt{X}-2\sqrt{2}} = ?$

a) $\frac{\sqrt{2}}{8}$ b) $\frac{\sqrt{2}}{4}$ c) $\frac{\sqrt{2}}{3}$ d) $\frac{\sqrt{2}}{2}$ e) $\sqrt{2}$

Cevap: c

4. $\sum_{n=0}^{\infty} \frac{1+3^n}{5^n} = ?$

a) $\frac{4}{7}$ b) $\frac{5}{2}$ c) $\frac{15}{2}$ d) $\frac{15}{4}$ e) 5

Cevap: d

5. $\frac{sinx+2cosx}{3sinx+cosx} = \frac{11}{13}$

$cos2x = ?$

a) $\frac{7}{25}$ b) $\frac{9}{16}$ c) $\frac{16}{25}$ d) $\frac{9}{25}$ e) 1

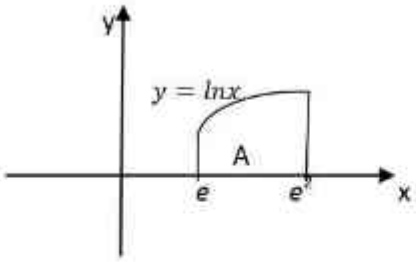
Cevap: a

6. $\frac{a}{b} = \frac{c}{d} = \frac{e}{f} = \frac{1}{3}$
$3a - 2c + 4e = 7$
$3b + 4f = 17$
$d = ?$

a) -5 b) -2 c) 1 d) 10 e) 17

Cevap: b

7.



$y = lnx, \quad x = e, \; x = e^2 \;\Rightarrow\; A = ?$

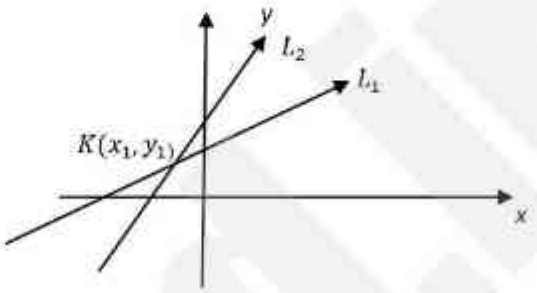
a) $2e^2$ b) e^2 c) e d) $2e$ e) $1 + e$

Cevap: b

8. $L_1: \; x - 2y + 3 = 0$

$L_2: \; 3x - y + 4 = 0$

$L_1 \cap L_2 = K(x_1, y_1) \;\Rightarrow\; x_1 + y_1 = ?$



a) -2 b) $-\frac{3}{2}$ c) 0 d) 1 e) $\frac{3}{2}$

Cevap: c

9.

I.	II.
28763	ULBKR
31920	ACBKE
04769	REMBK
05927	EMRAU
93176	USRAB

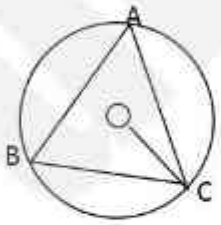
ise, 28764 = ?

a) ABULC b) ACBKL c) ALKBC d) ACALK e) EUKBK

Cevap: b

10. $m(\widehat{BCO}) = 40^0$

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



a) 35 b) 40 c) 45 d) 50 e) 55

Cevap: d

11.

	1	2	3
4	4	8	P
5	5	R	15
6	5	12	13

Yukarıdaki tabloda sayılar belirli bir kurala göre yazılmıştır.
Buna göre, P + R = ?

In the table above the numbers are writen accordingly to a rule.
Accordingly, P + R = ?

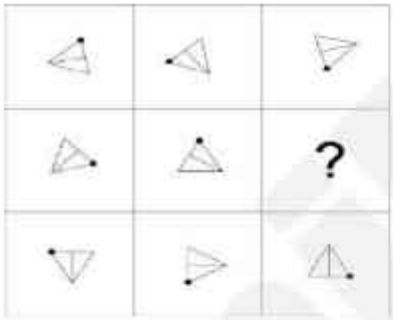
a) 0 b) 10 c) 16 d) 20 e) 22

12. Aşağıdaki şekillerden hangisi farklıdır?
Which one of the fallowing figures is different?

a)  b)  c)  d)  e) 

Cevap: b

13.



Soru işareti "?" olan yere aşağıdakilerden hangisi gelmelidir?
Which one of the fallowing shapes does the question mark stand for?

a)  b)  c)  d)  e) 

Cevap: d

1. $\frac{(a-b)^3}{a^2+ab+b^2} : \frac{a^2-b^2}{(a+b)^2} = ?$

$A) a+b \quad B) \frac{(a-b)^3}{a^2+ab+b^2} \quad C) \frac{(a-b)^3}{a^3-b^3}$

$D) \frac{(a-b)^3 \cdot (a+b)}{a^3-b^3} \quad E) a-b$

2. $\sqrt{15 \cdot 17 \cdot 19 \cdot 21 + 16} = ?$

$A)324 \quad B)225 \quad C)319 \quad D)220 \quad E)219$

3. $\lim_{x \to 64} \frac{\sqrt{x}-8}{\sqrt[3]{x}-4} = ?$

$A)0 \quad B)\infty \quad C)\frac{3}{2} \quad D)\frac{2}{3} \quad E)3$

4. $\lim_{x \to \infty} \frac{\pi^{x+1} + e^{x-3}}{4\pi^x + 21} = ?$

$A)0 \quad B)\infty \quad C)\frac{1}{4} \quad D)\frac{\pi}{4} \quad E)\frac{1}{4e^3}$

5. $\int \left(3x^2 + \frac{5}{x} + e^x\right) dx = ?$

$A) x^3 + lnx + e^x + c$

$B) x^3 + 5lnx + \frac{e^{2x}}{2} + c$

$C) \frac{3}{2}x^3 + ln5x + e^x + c$

$D) x^3 + 5lnx + e^x + c$

$E) \frac{2}{3}x^3 + 5lnx + e^x + c$

6. $\frac{2}{\log_4 6}+\frac{4}{\log_3 6}-\frac{1}{\log_x 6}=2$

$\Rightarrow x=?$

$A)6 \quad B)18 \quad C)36 \quad D)12 \quad E)24$

7. $11^2=1+3+5+\cdots+21$

$9^2=1+3+5+\cdots+x$

$\Rightarrow x=?$

$A)21 \quad B)9 \quad C)10 \quad D)17 \quad E)19$

8. $\left(1-\frac{1}{4}\right)\cdot\left(1-\frac{1}{9}\right)\cdot\left(1-\frac{1}{16}\right)\cdot\ldots\cdot\left(1-\frac{1}{400}\right)=?$

$A)\frac{21}{40} \quad B)\frac{21}{20} \quad C)\frac{21}{2} \quad D)\frac{19}{40} \quad E)\frac{19}{2}$

9. $3,\ 8,\ 23,\ x,\ 203,\ y$

$y-x=?$

$A)542 \quad B)543 \quad C)540 \quad D)545 \quad E)541$

10. $\sqrt{x+2}-\sqrt{x-2}=A$

$\sqrt{x+2}+\sqrt{x-2}=?$

$A)4+A \quad B)4-A \quad C)\frac{A}{4} \quad D)\frac{4}{A} \quad E)4A$

11. $f(x^3+2x)=3x^3+6x+17$

$\Rightarrow f(8)=?$

$A)24 \quad B)31 \quad C)23 \quad D)25 \quad E)41$

1-D 7-D

2-C 8-C

3-D 9-C

4-D 10-D

5-B 11-E

6-C