



YÖS ANKARA
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II. DERECE EŞİTSİZLİKLER II

Matematik 39

1. $\sqrt{6x-48} < 6 \Rightarrow \text{ÇK(SS)} = ?$

- A) $(8, \infty)$ B) $[8, \infty)$ C) $[8;14)$ D) $(8;14]$ E) $(14, \infty)$

2. $\frac{x-4}{2x+6} > -2 \Rightarrow \text{ÇK(SS)} = ?$

- A) $\mathbb{R} - (-3, 4]$ B) $\mathbb{R} - \left[-3, -\frac{8}{5}\right]$ C) $(-3, 4)$
D) $\left(-3, -\frac{8}{5}\right)$ E) \emptyset

3. $\frac{5x-15}{x-3} \leq 6 \Rightarrow \text{ÇK(SS)} = ?$

- A) \mathbb{R} B) $\{3\}$ C) $(-3, 3)$ D) $\mathbb{R} - \{3\}$ E) \emptyset

4. $x \in \mathbb{N}$
 $\frac{(-x^3+1)^4(x^2-3x-4)}{x^3-x} \leq 0$

$\Rightarrow \sum x = ?$

- A) 5 B) 7 C) 9 D) 11 E) 13

5. $(m-1)x^2 - (m-7)x + 2m = 0$

$x_1 < 1 < x_2 \Rightarrow m = ?$

- A) $m < -3$ B) $-3 < m < -1$ C) $-3 < m < 1$
D) $1 < m < 4$ E) $1 < m$

6. $a, b \in \mathbb{R}, m \in \mathbb{Z}$

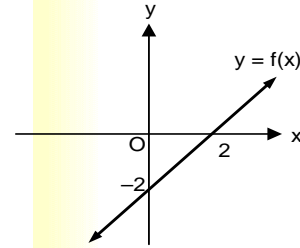
$2x^2 + (2a-8)x + b - 1 = 0$

$x_1 = -x_2, m = a \cdot b$

$\Rightarrow \text{Max}(m) = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

7.



$(-x-4) \cdot f(x) > 0 \Rightarrow \text{ÇK(SS)} = ?$

- A) $(-\infty, -4)$ B) $[-4, 2)$ C) $(-4, 2)$
D) $[2, \infty)$ E) $(-\infty, \infty)$

8. $x^2 - (2m-6)x - 3m = 0$

$\frac{1}{x_1} + \frac{1}{x_2} > 2 \Rightarrow m = ?$

- A) $m < -\frac{3}{4}$ B) $m < 0$ C) $0 < m < \frac{3}{4}$
D) $-\frac{3}{4} < m < \frac{3}{4}$ E) $\frac{3}{4} < m$

9. $x \in Z$
 $\frac{x^2 - 8x + 15}{x^2 + x - 12} < 0$
 $x^2 - x - 12 \leq 0 \Rightarrow n(x) = ?$
 A) 3 B) 4 C) 5 D) 6 E) 7

10. $mx^2 - (m-3)x + 3m + 6 = 0$
 $x_1 < 0 < x_2 \Rightarrow ? < m < ?$
 A) $m < -2$ B) $-2 < m < 0$ C) $m \leq 2$
 D) $2 < m < 5$ E) $5 < m$

11. $b < 0 < a$
 $(bx + a) \cdot (-ax + b) \geq 0$
 $\Rightarrow \text{ÇK(SS)} = ?$
 A) $\left(-\frac{a}{b}, -\frac{b}{a}\right)$ B) $\left(-\frac{b}{a}, \frac{b}{a}\right)$ C) $\left[\frac{b}{a}, \frac{a}{b}\right]$
 D) $\left[\frac{b}{a}, -\frac{a}{b}\right]$ E) $\left[-\frac{a}{b}, \frac{b}{a}\right]$

12. $x \in Z$
 $\left. \begin{array}{l} \frac{x^2 - 1}{x^2} \geq 0 \\ \frac{x - 2}{x + 2} \leq 0 \end{array} \right\} \Rightarrow \sum x = ?$
 A) -2 B) -1 C) 0 D) 1 E) 2

13. $(m+3)x^2 + x + m - 1 = 0$
 $x_1 < x_2, \quad |x_1| > |x_2|$
 $\Rightarrow m = ?$
 A) $m < -1$ B) $-1 < m < 0$
 C) $0 < m < 1$ D) $-1 < m < 3$
 E) $-3 < m < 1$

14. $\frac{x^2 + 6x + 9}{(x-2)(x-3)} \geq 0 \Rightarrow \text{ÇK(SS)} = ?$
 A) $R - [2, 3]$ B) $R - (3, 2)$ C) $R - [2, \infty)$
 D) $(-3, 2)$ E) $[2, 3]$

15. $\frac{|x-3| \cdot (x-1)}{x^2 - 4} \leq 0 \Rightarrow \text{ÇK(SS)} = ?$
 A) $(-\infty, -2] \cup [1, 2]$
 B) $(-\infty, -2) \cup [1, 2) \cup \{3\}$
 C) $(-\infty, -2] \cup [1, 2] \cup \{3\}$
 D) $(-\infty, -2) \cup [1, 2) - \{3\}$
 E) $(-\infty, -2) \cup (1, 2) - \{3\}$

16. $3 < x^2 + 2x < 24 \Rightarrow \text{ÇK(SS)} = ?$
 A) $(-4, -3) \cup (3, 6)$
 B) $(-6, -3) \cup (1, 4)$
 C) $(-6, 1) \cup (3, 4)$
 D) $(-6, -4) \cup (3, 4)$
 E) $(-4, -1) \cup (1, 4)$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	B	D	C	C	B	C	C	E	B	D	E	E	A	B	B