

CEVAPLI TEST - 1

1. $\frac{x^3 + 3x^2 + x + 3}{x^2 + 3x} = ?$

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

2. $(98)^2 + (2004)^2 - (97)^2 - (2003)^2 = ?$

- A) 220 B) 320 C) 422
D) 4002 E) 4202

3. $\frac{4xy - 2x}{4xy^2 - x} = ?$

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

4. $\frac{x^2 + 3x - 10}{x^2 + 6x + 5} = ?$

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

5. $\frac{3x^2 - 9x}{9 - x^2} - \frac{x^2}{x+3} = ?$

- A) 1 B) x C) $2x$ D) $-x$ E) $-2x$

6. $x^2 + y^2 + 2xy - 9$ ifadesini çarpanlara ayırın

- A) $(x - y + 3) \cdot (x + y - 3)$
B) $(x + y + 3) \cdot (x - y - 3)$
C) $(x + y + 2) \cdot (x + y - 3)$
D) $(x + y + 1) \cdot (x + y - 2)$
E) $(x + y + 3) \cdot (x + y - 3)$

7. $x + \frac{1}{2x} = 5$ ise $x^2 + \frac{1}{4x^2} = ?$

- A) 24 B) 12 C) 9 D) 6 E) 5

8. $x + \frac{1}{3x} = 2$ ise $9x^2 + \frac{1}{x^2} = ?$

- A) 2 B) 6 C) 9 D) 20 E) 30

9. $\frac{x^3 + 1}{x^4 + x^2 + 1} : \frac{x^2 - 1}{x^3 - 1} = ?$

- A) 1 B) 2 C) x D) x^2 E) $x^2 - 1$

10.

$$\frac{x^2 - 5x + 6}{x^2 - 4x + 3} : \left[\frac{x^2 + 2x - 8}{x^2 - 1} : \frac{x^2 + 6x + 8}{x^2 + 4x + 3} \right] = ?$$

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

$$11. \frac{x - \frac{1}{x}}{1 + \frac{1}{x}} + \frac{x - \frac{1}{x}}{1 - \frac{1}{x}} = ?$$

- A) 1 B) x C) 2x D) x - 2 E) x + 2

$$12. \frac{x^2 + mx - 30}{(x^2 - 5x + 6)(x - 5)} \text{ kesri sadeleşebilen bir kesir ise m'nin alabileceği değerle toplamı nedir?}$$

- A) 19 B) 20 C) 21 D) 22 E) 23

$$13. \frac{x^3 - 2x^2 - 4 + 2x}{x^2 + 2} = ?$$

- A) x B) x+1 C) x-1 D) x-2 E) x+3

$$14. \frac{x - \frac{1}{x}}{\frac{1}{x} - x^2} + \frac{x^2 + 2x + 2}{x^2 + x + 1} = ?$$

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

$$15. \frac{x^2 - x - 6}{x^2 + ax - 12} \text{ kesri sadeleşebilen bir kesir ise a'nın alabileceği değerler toplamı nedir?}$$

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

$$16. \frac{x^2 - y^2 + 6x + 9}{x + y + 3} = ?$$

- A) x-y B) x+y C) x-y+3
D) x-y-3 E) x+y+3

$$17. 3x-2y=0 \text{ olmak üzere; } \frac{2xy - y^2}{5x^2 + 3xy} = ?$$

- A) $\frac{2}{3}$ B) $\frac{2}{19}$ C) $\frac{4}{35}$ D) $\frac{3}{38}$ E) $\frac{15}{26}$

$$18. \frac{\left(x^2 + \frac{1}{x}\right) - \left(x + \frac{1}{x}\right)}{\left(x^3 + \frac{1}{x}\right) - \left(x^2 + \frac{1}{x}\right)} = ?$$

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

$$19. \left[\frac{x-y}{x^2 - xy + y^2} : \frac{x^2 - y^2}{x^3 y^2 + y^5} \right]^{-1} = ?$$

- A) y² B) $\frac{1}{y^2}$ C) y D) $\frac{1}{y}$ E) $\frac{2}{y}$

$$20. \frac{(x-2y+3)^2 - (x+3y-2)^2}{-5(2x+y+1)} = ?$$

- A) 1 B) 2 C) y D) y-1 E) y+1

1	2	3	4	5	6	7	8	9	10
A	E	B	C	D	E	A	E	A	D
11	12	13	14	15	16	17	18	19	20
C	C	D	A	E	C	D	E	B	D