

IZRAZI

a.) KVADRAT VSOTE

$$(a + b)^2 = a^2 + 2 \cdot a \cdot b + b^2$$

REŠENI PRIMERI:

$$(a + 3)^2 = a^2 + 2 \cdot a \cdot 3 + 3^2 = a^2 + 6a + 9$$

$$(x + 7)^2 = x^2 + 2 \cdot x \cdot 7 + 7^2 = x^2 + 14x + 49$$

$$(m + 12)^2 = m^2 + 2 \cdot m \cdot 12 + 12^2 = m^2 + 24m + 144$$

$$(3x + 8)^2 = (3x)^2 + 2 \cdot 3x \cdot 8 + 8^2 = 9x^2 + 48x + 64$$

VAJE:

$$(a + 9)^2 =$$

$$(x + 5)^2 =$$

$$(t + 18)^2 =$$

$$(2a + 6)^2 =$$

$$(4n + 7)^2 =$$

b.) KVADRAT RAZLIKE

$$(a - b)^2 = a^2 - 2 \cdot a \cdot b + b^2$$

REŠENI PRIMERI:

$$(a - 4)^2 = a^2 - 2 \cdot a \cdot 4 + 4^2 = a^2 - 8a + 16$$

$$(x - 10)^2 = x^2 - 2 \cdot x \cdot 10 + 10^2 = x^2 - 20x + 100$$

$$(m - 15)^2 = m^2 - 2 \cdot m \cdot 15 + 15^2 = m^2 - 30m + 225$$

$$(2x - 3)^2 = (2x)^2 - 2 \cdot 2x \cdot 3 + 3^2 = 4x^2 - 12x + 9$$

VAJE:

$$(a - 2)^2 =$$

$$(x - 8)^2 =$$

$$(t - 16)^2 =$$

$$(2a - 4)^2 =$$

$$(3n - 5)^2 =$$

c.) PRODUKT DVOČLENIKOV

$$(a + b) \cdot (c + d) = ac + ad + bc + bd$$

REŠENI PRIMERI:

$$(x + 7) \cdot (x + 2) = x^2 + 2x + 7x + 14 = x^2 + 9x + 14$$

$$(x + 13) \cdot (x + 10) = x^2 + 10x + 13x + 130 = x^2 + 23x + 130$$

$$(2x + 4) \cdot (3x + 2) = 6x^2 + 4x + 12x + 8 = 6x^2 + 16x + 8$$

$$(x + 5) \cdot (x - 4) = x^2 - 4x + 5x - 20 = x^2 + x - 20$$

$$(x - 8) \cdot (x - 6) = x^2 - 6x - 8x + 48 = x^2 - 14x + 48$$

VAJE:

$$(x + 8) \cdot (x + 4) =$$

$$(x + 15) \cdot (x + 9) =$$

$$(3x + 7) \cdot (5x + 2) =$$

$$(x + 10) \cdot (x - 6) =$$

$$(x - 7) \cdot (x - 5) =$$

$$(5x - 6) \cdot (3x - 10) =$$

d.) PRODUKT VSOTE IN RAZLIKE

$$(a + b) \cdot (a - b) = a^2 - ab + ab - b^2$$

$$\underbrace{-ab + ab}_{\boxed{0}}$$

$$(a + b) \cdot (a - b) = a^2 - b^2$$

REŠENI PRIMERI:

$$(x + 7) \cdot (x - 7) = x^2 - 49$$

$$(x - 13) \cdot (x + 13) = x^2 - 169$$

$$(2x + 4) \cdot (2x - 4) = 4x^2 - 16$$

VAJE:

$$(x + 9) \cdot (x - 9) =$$

$$(x - 25) \cdot (x + 25) =$$

$$(2x + 6) \cdot (2x - 6) =$$

$$(3x - 12) \cdot (3x + 12) =$$

$$(5x + 20) \cdot (5x - 20) =$$

e.) KUB VSOTE

$$(a + b)^3 = a^3 + 3 \cdot a^2 \cdot b + 3 \cdot a \cdot b^2 + b^3$$

REŠENI PRIMERI:

$$(a + 3)^3 = a^3 + 3 \cdot a^2 \cdot 3 + 3 \cdot a \cdot 3^2 + 3^3 = a^3 + 9a^2 + 27a + 27$$

$$(x + 7)^2 = x^3 + 3 \cdot x^2 \cdot 7 + 3 \cdot x \cdot 7^2 + 7^3 = \\ = x^3 + 21x^2 + 147x + 343$$

$$(m + 12)^2 = m^3 + 3 \cdot m^2 \cdot 12 + 3 \cdot m \cdot 12^2 + 12^3 = \\ = m^3 + 36m^2 + 432m + 1728$$

$$(3x + 8)^2 = (3x)^3 + 3 \cdot (3x)^2 \cdot 8 + 3 \cdot (3x) \cdot 8^2 + 8^3 = \\ = 27x^3 + 216x^2 + 576x + 512$$

VAJE:

$$(a + 2)^3 =$$

$$(x + 3)^3 =$$

$$(t + 5)^3 =$$

$$(2a + 3)^3 =$$

PONOVITEV:

Odpravi oklepaje!

$$(a + 6)^2 =$$

$$(x + 8)^2 =$$

$$(2t + 1)^2 =$$

$$(a - 4)^2 =$$

$$(x - 10)^2 =$$

$$(3t - 1)^2 =$$

$$(x + 6) \cdot (x + 10) =$$

$$(x - 5) \cdot (x + 9) =$$

$$(2x + 7) \cdot (4x - 2) =$$

$$(x - 10) \cdot (x - 14) =$$

$$(5x - 8) \cdot (2x - 5) =$$

$$(x + 7) \cdot (x - 7) =$$

$$(x - 14) \cdot (x + 14) =$$

$$(3x + 8) \cdot (3x - 8) =$$

$$(5x - 10) \cdot (5x + 10) =$$

$$(a + 4)^3 =$$

$$(x + 6)^3 =$$

$$(t + 10)^3 =$$