

## Algebraické vzorce 1

Úkol 1 + 2: Uprav pomocí vzorců:  $(A+B)^2 = A^2 + 2AB + B^2$ ,  $(A-B)^2 = A^2 - 2AB + B^2$ ,  $(A+B) \cdot (A-B) = A^2 - B^2$

Úkol 1:

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

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

$$(a + 7)^2 =$$

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

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

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

$$(5a + 1)^2 =$$

$$(4x + 1) \cdot (4x - 1) =$$

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

$$(7x + 2)^2 =$$

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

$$(5a + 3b)^2 =$$

$$(3y^2 + 2x^3)^2 =$$

$$(8x + 6y) \cdot (8x - 6y) =$$

$$(2y - 3) \cdot (2y + 3) =$$

$$(6a - 9b) \cdot (6a + 9b) =$$

Úkol 2:

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

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

$$(a - 5)^2 =$$

$$(2 + y) \cdot (2 - y) =$$

$$(a + 6) \cdot (a - 6) =$$

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

$$(4a - 1)^2 =$$

$$(1 - 3a) \cdot (1 + 3a) =$$

$$(5y - 4)^2 =$$

$$(4x - 3)^2 =$$

$$(2x - 3y)^2 =$$

$$(3a - 4b)^2 =$$

$$(4x^3 - 5x^3y)^2 =$$

$$(a + 5b) \cdot (a - 5b) =$$

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

$$(4a^2 + 7b^3) \cdot (4a^2 - 7b^3) =$$

Úkol 3: Uprav pomocí vzorců:  $(A+B)^2 = A^2 + 2AB + B^2$ ,  $(A-B)^2 = A^2 - 2AB + B^2$ ,  $(A+B) \cdot (A-B) = A^2 - B^2$

$$(2x^2y^3 + 6x^3y)^2 =$$

$$(5x^3y^4 - 2x^2y^2)^2 =$$

$$(4a^3b^2c + ab^2c^3)^2 =$$

$$(3x^2y^3z^4 - 5x^3y^2z)^2 =$$

$$(3x^2y^3z + 4xy^2z^2) \cdot (3x^2y^3z - 4xy^2z^2) =$$

$$(9x^3y^2z^4 + 6x^2y^3z^2) \cdot (9x^3y^2z^4 - 6x^2y^3z^2) =$$