WZORY SKRÓCONEGO MNOŻENIA

$$25 = (\underbrace{2+3}_{5})^2 = 2^2 + 2 \cdot 2 \cdot 3 + \underbrace{3^2}_{9}$$

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

$$(a+b)^2 = a^2 + \underline{2ab} + b^2$$

$$(x+2)^2 = x^2 + 2 \cdot x \cdot 2 + 2^2$$

$a \quad b$

$$x^2 + 4x + 4$$

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

6

$x \quad x$

$ab \quad a$

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

$$4x^2 + 12xy + 9y^2$$

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(7+3x)^2 = 49 + 2\cdot 7\cdot 3x + 9x^2$$

$$49 + 42x + 9x^2$$

$$(\underbrace{5x}_{a}+\underbrace{2}_{b})^2 = 25x^2 + 2\cdot 5x\cdot 2 + 4$$

$$25x^2 + 20x + 4$$

$$(2x+3)^2 - (x+6)^2 \equiv 4x^2 + 12x + 9 - (x^2 + 12x + 36)$$

$(4x+1)^2$

Zadanie domowe

1AT

$(2x+5)^2$

$(3x+2)^2-(6x+2)^2$

$9x^2 + 2 \cdot 3x \cdot 8 + 64$

$9x^2 + 48x + 64$

$(3x+8)^2 = (3x+8)(3x+8) =$

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

$= 9x^2 + 64 + 24x + 24x$

$9x^2 + 48x + 64$