

## Ćwiczenie 26

Rozwiąż nierówność:  $2x^2 - 4x > (x+3)(x-2)$

$$2x^2 - 4x > (x+3)(x-2)$$

$$2x^2 - 4x > x^2 - 2x + 3x - 6$$

$$2x^2 - 4x > x^2 + x - 6$$

$$x^2 - 5x + 6 > 0$$

$$a = 1$$

$$b = -5$$

$$c = 6$$

$$\Delta = 25 - 4 \cdot 1 \cdot 6$$

$$\Delta = 1 \quad \sqrt{\Delta} = 1$$

$$x_1 = \frac{-b - \sqrt{\Delta}}{2a}$$

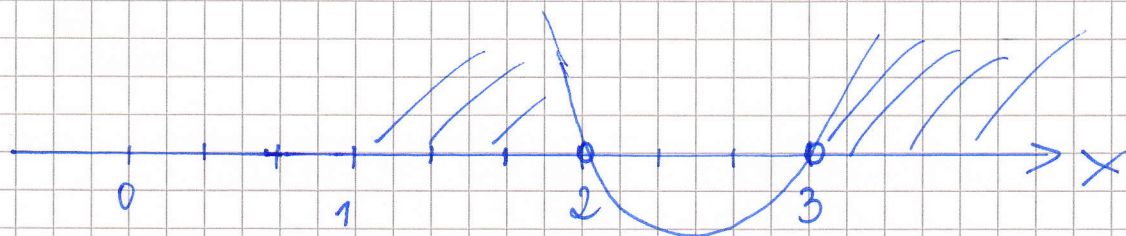
$$x_2 = \frac{-b + \sqrt{\Delta}}{2a}$$

$$x_1 = \frac{5 - 1}{2} = 2$$

$$x_2 = \frac{5 + 1}{2} = 3$$

$$x_1 = 2$$

$$x_2 = 3$$



Odp.

$$x \in (-\infty, 2) \cup (3, +\infty)$$