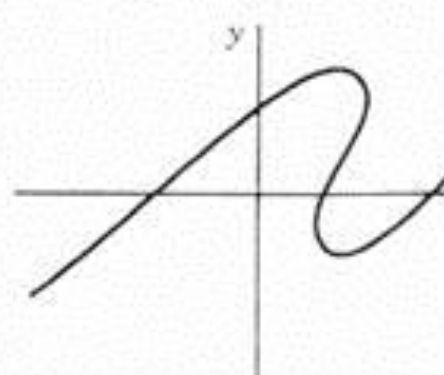
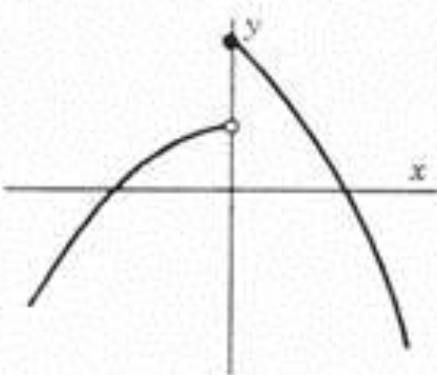
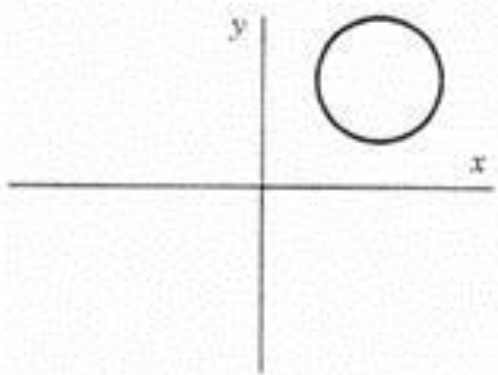
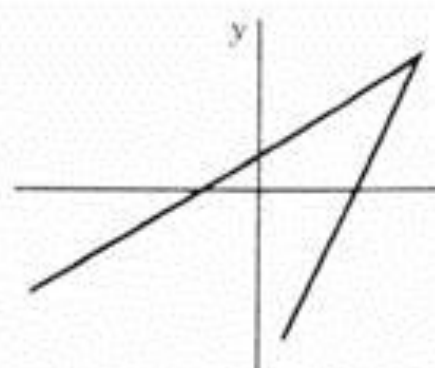
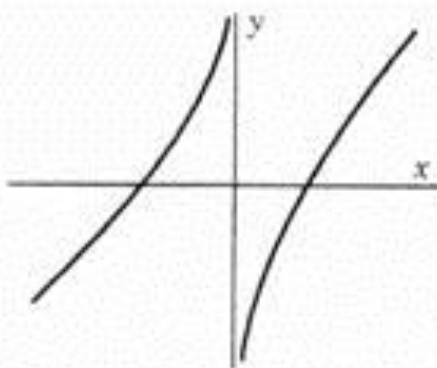
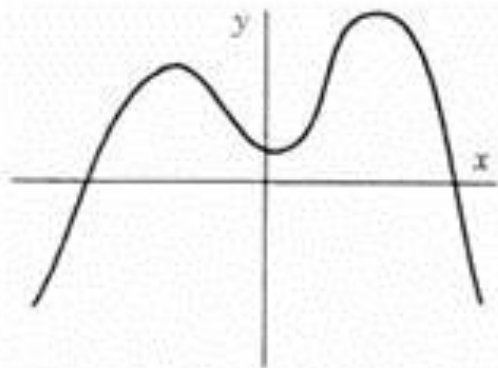
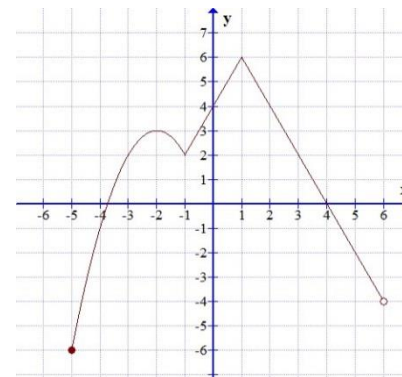
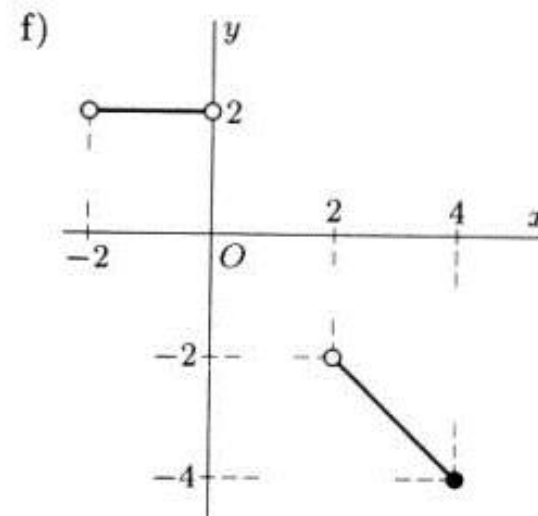
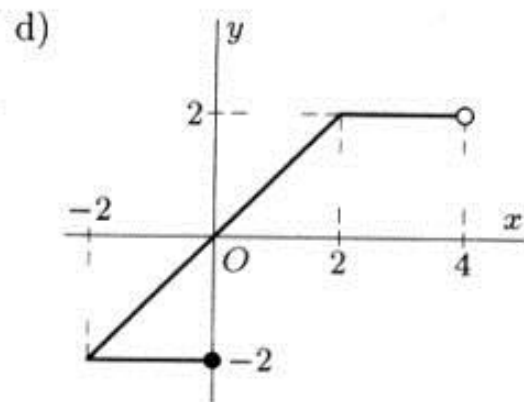
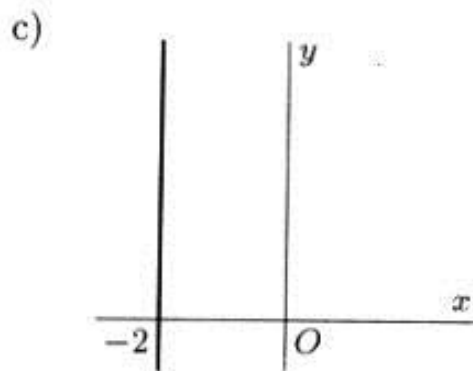
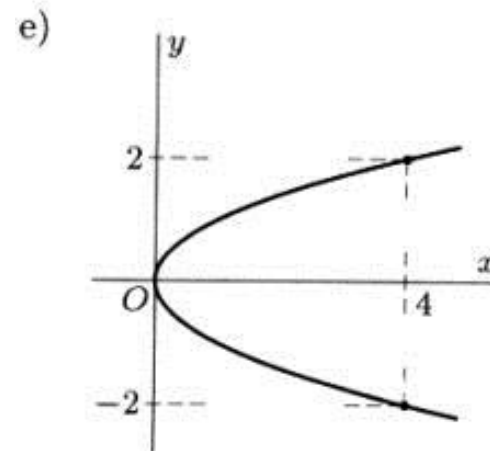
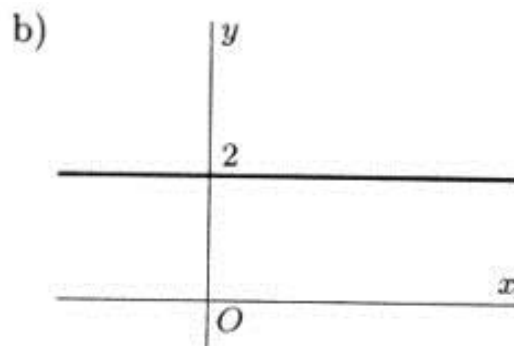
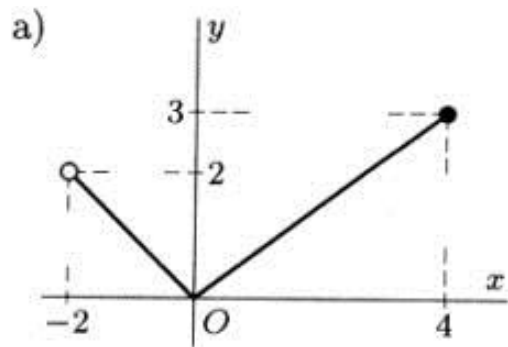


Funkcie

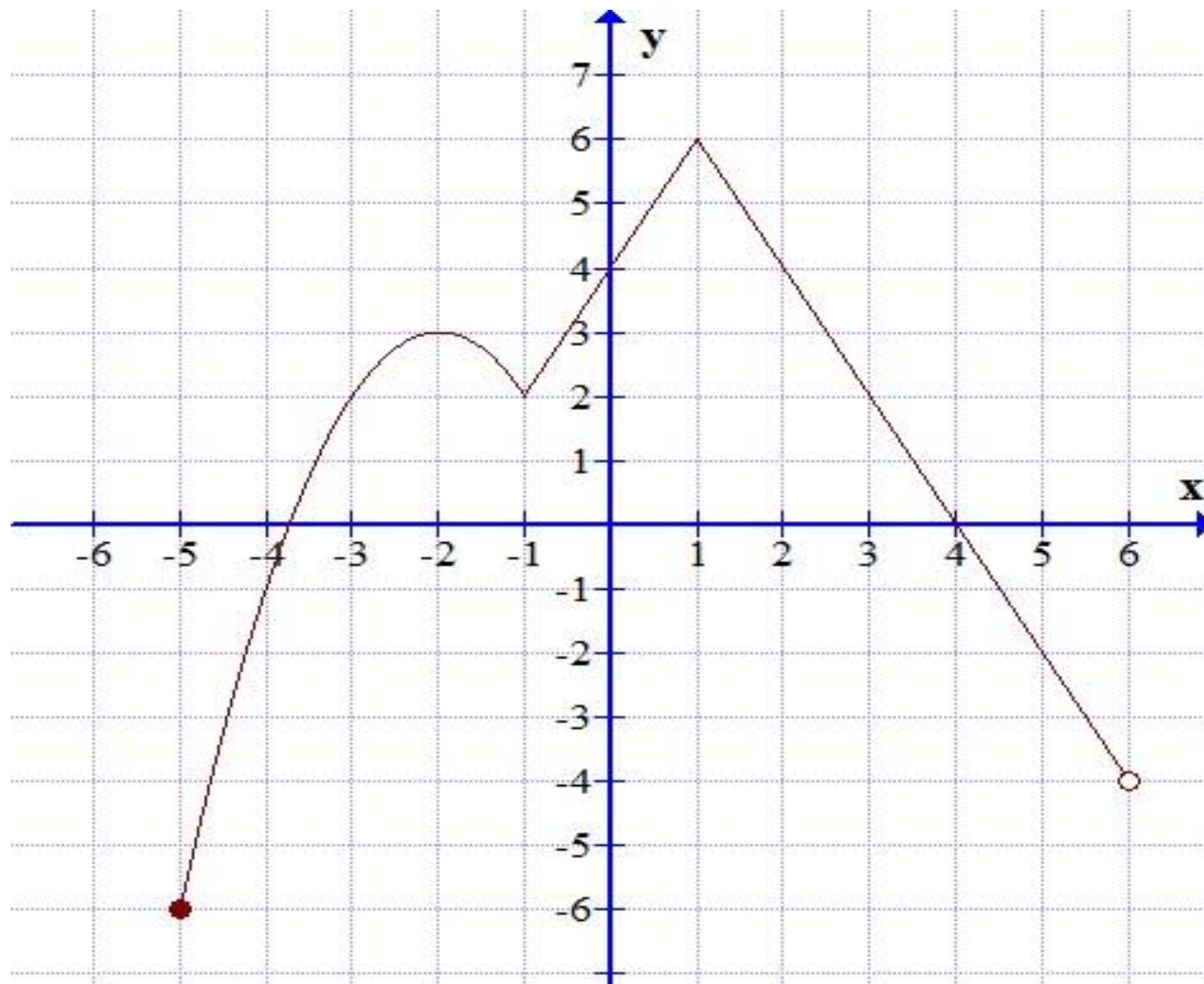


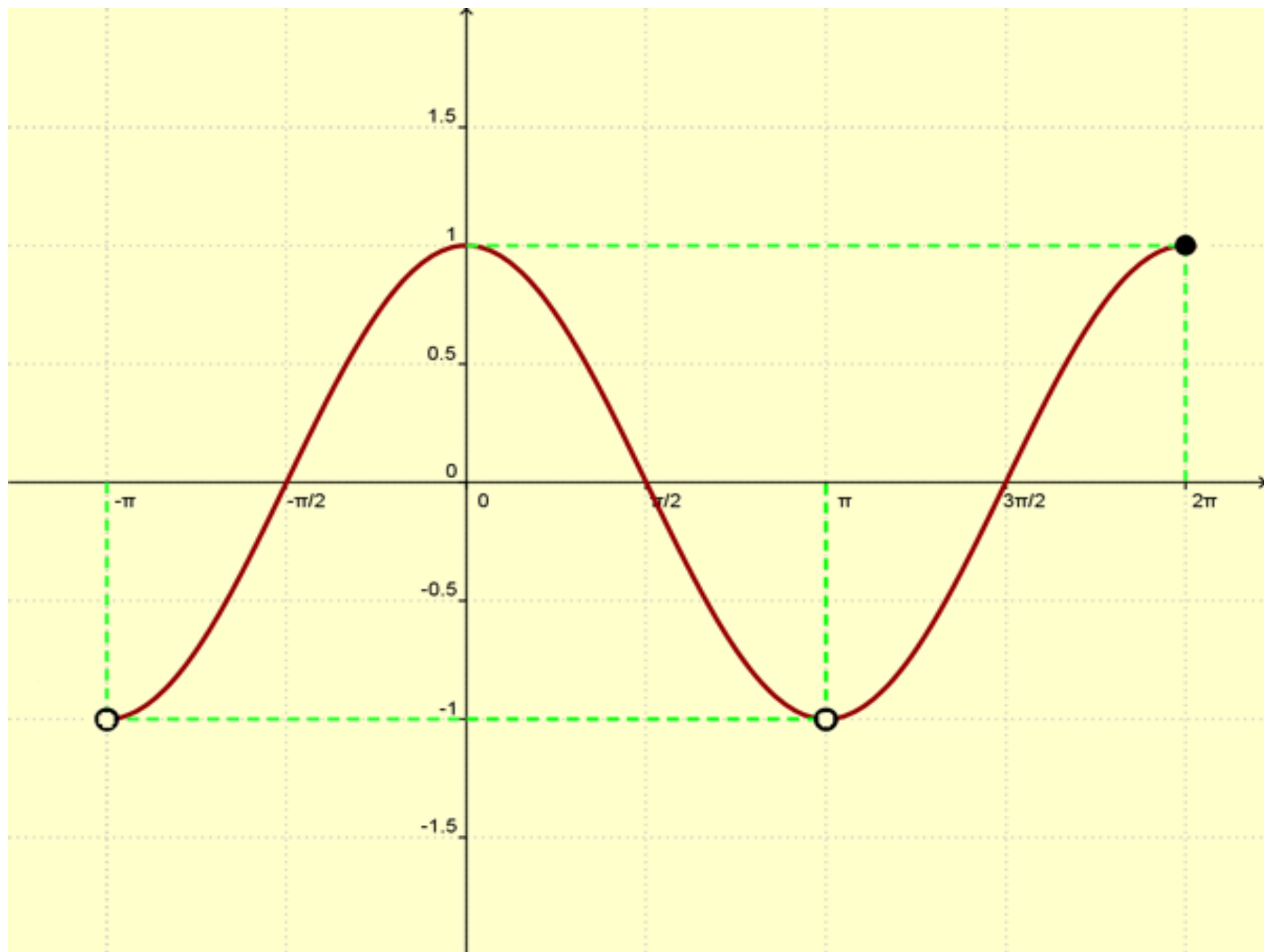
Zistite, ktorý obrázok zodpovedá grafu funkcie



Pre funkcie určte definičný obor a obor hodnôt

Určte vlastnosti funkcie





Určte definičný obor funkcie

$$f_1 : y = \frac{2x-1}{2x+3}$$

$$f_4 : y = \frac{2-x}{3x} + \sqrt{2-x}$$

$$f_2 : y = \frac{\sqrt{x+5}}{x^2-4}$$

$$f_5 : y = \sqrt{\frac{3-x}{x+5}} + \sqrt{5-2x}$$

$$f_3 : y = \sqrt{(x+3)(x-1)}$$

$$f_6 : y = \frac{1}{\sqrt{x^2+4x+4}}$$

Lineárna funkcia

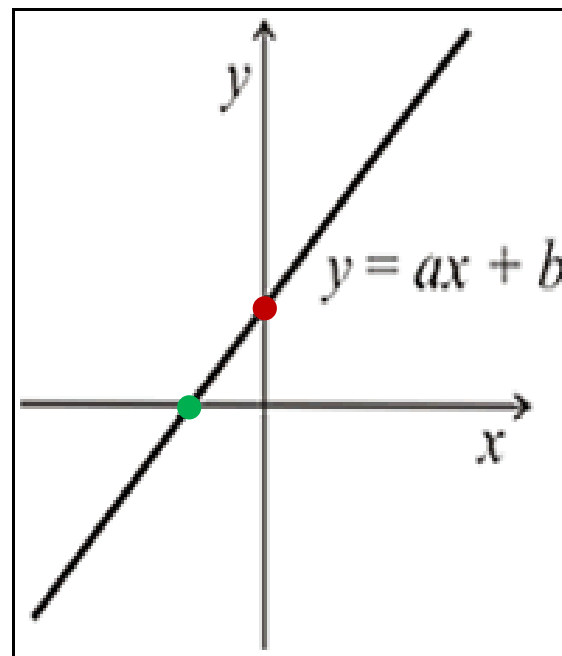
$$f : y = ax + b; \quad a \neq 0, \quad a, b \in \mathbb{R}$$

$$D(f) = \mathbb{R}$$

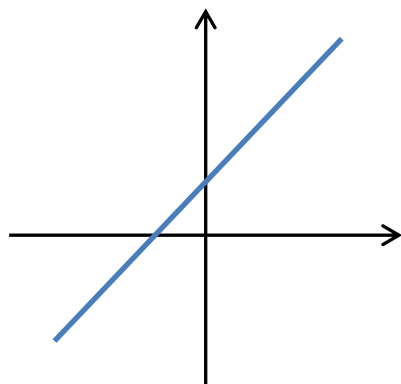
$$H(f) = \mathbb{R}$$

$$P_x = \left[\frac{-b}{a}; 0 \right]$$

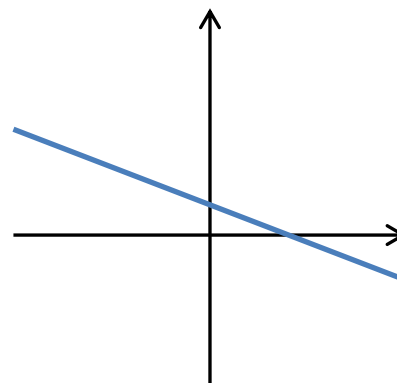
$$P_y = [0; b]$$



$a > 0$ LF je rastúca



$a < 0$ LF je klesajúca

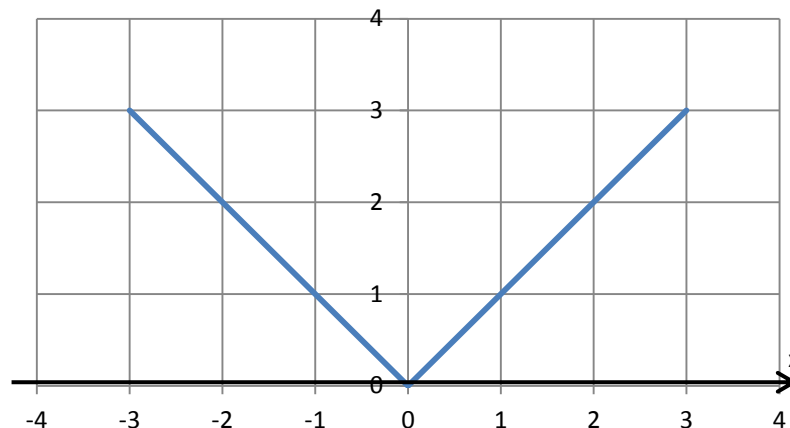


Funkcia s absolútnou hodnotou

$$f : y = |x|$$

$$D(f) = \mathbb{R}$$

$$H(f) = \langle 0; \infty \rangle$$



$$f : y = |x + 3| + |2x - 1| \quad f : y = \begin{cases} -3x - 2 & \text{pre } x \in (-\infty; -3) \\ -x + 4 & \text{pre } x \in \langle -3; 0,5) \\ 3x + 2 & \text{pre } x \in \langle 0,5; \infty) \end{cases}$$

