Lineárne lomené funkcie (vyriešené príklady)

<u>Úloha:</u> Pre nasledujúce funkcie určte:

- stred hyperboly
- definičný obor
- obor hodnôt
- asymptoty grafu funkcie
- priesečník s x-ovou osou
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- načrtnite graf funkcie

a)
$$f: y = \frac{x+3}{x-2}$$

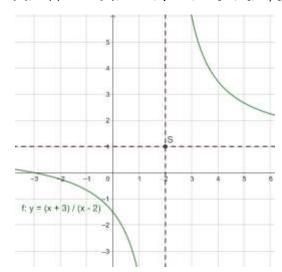
b)
$$f: y = \frac{x-2}{1-x}$$

c)
$$f: y = \frac{2x+1}{x+1}$$

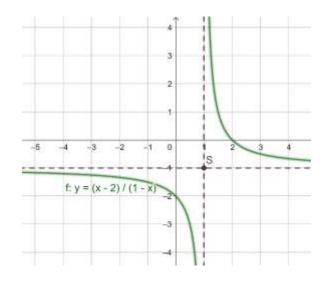
d)
$$f: y = \frac{4x+2}{5x-1}$$

Výsledky:

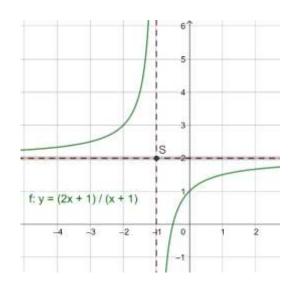
a)
$$S[2;1]$$
; $D(f) = R - \{2\}$; $H(f) = R - \{1\}$; $x = 2$, $y = 1$; $P_x [-3;0]$; $P_y [0;-1,5]$;



b) $S[1;-1]; D(f) = R - \{1\}; H(f) = R - \{-1\}; x = 1, y = -1; P_x [2;0]; P_y [0;-2];$



c) S[-1;2]; $D(f) = R - \{-1\}$; $H(f) = R - \{2\}$; x = -1, y = 2; $P_x [-0,5;0]$; $P_y [0;1]$;



d) S[0,2;0,8]; $D(f) = R - \{0,2\}$; $H(f) = R - \{0,8\}$; x = 0,2, y = 0,8; $P_x[-0,25;0]$; $P_y[0;-1]$;

