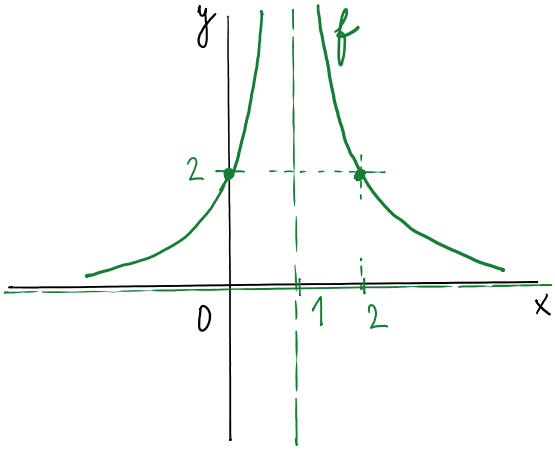
PROCVIČENÍ

středa 26. ledna 2022 9:00

Př.: Načrtni graf (1 bod; asymptoty)

1) $f: y = \frac{2}{(x-1)^2} = 2\cdot(x-1)^{-2}$



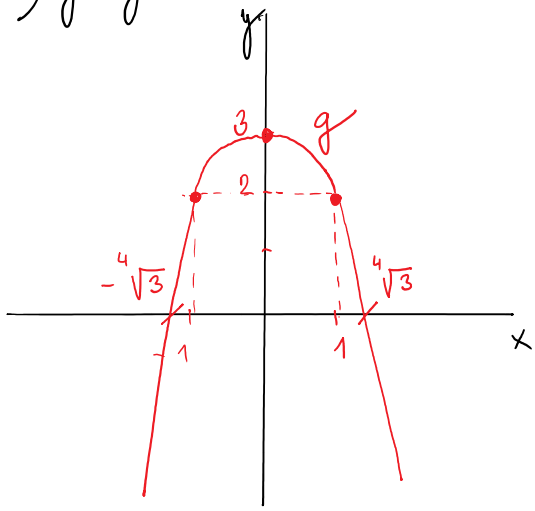
$D_f = R - \{1\}$

$H_f = (0;\infty)$

průs. s x není

s y: $x=0 \to y=2 \to [0;2]$

2) $g: y = -x^4 + 3$



$D_g = R$

$H_g = (-\infty;3\rangle$

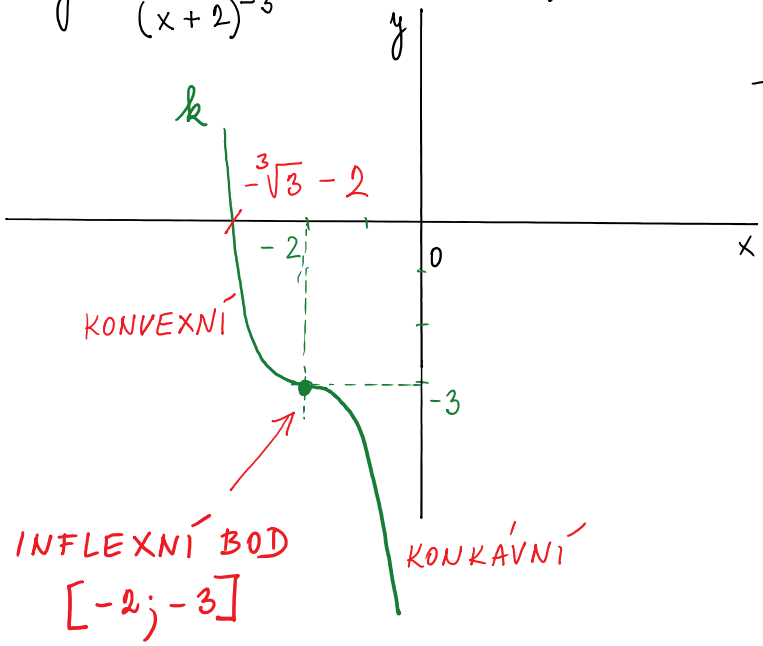
průs.

s y: $x=0 \to y=3 \to [0;3]$

s x: $y=0 \to -x^4+3=0 \to$

$\to x^4 = 3 \to x = \pm\sqrt[4]{3}$

3) $k: y = \frac{-1}{(x+2)^{-3}} - 3 = -(x+2)^3 - 3$



$\to x=0 \to y=-11 \to [0;-11]$

$\to y=0 \to -(x+2)^3 - 3 = 0$

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

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

$x+2 = \sqrt[3]{-3}$

$x = -\sqrt[3]{3} - 2$