

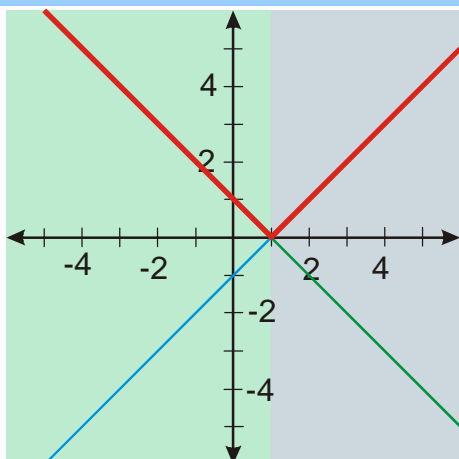
2.4.4 Kreslení grafů funkcí metodou dělení definičního oboru I

Opakování (kreslení grafu funkce $y = |x|$):

Př: 1: $y = |x-1|$

$$x \in (-\infty; 1) \quad y = |x-1| = -x+1$$

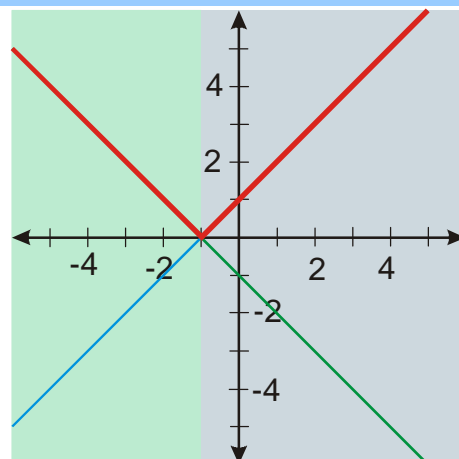
$$x \in \langle 1; \infty) \quad y = |x-1| = x-1$$



Př: 2: $y = |x+1|$

$$x \in (-\infty; -1) \quad y = |x+1| = -x-1$$

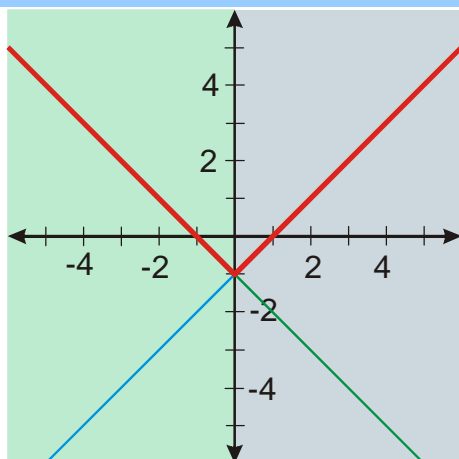
$$x \in \langle -1; \infty) \quad y = |x+1| = x+1$$



Př: 3: $y = |x|-1$

$$x \in (-\infty; 0) \quad y = |x|-1 = -x-1$$

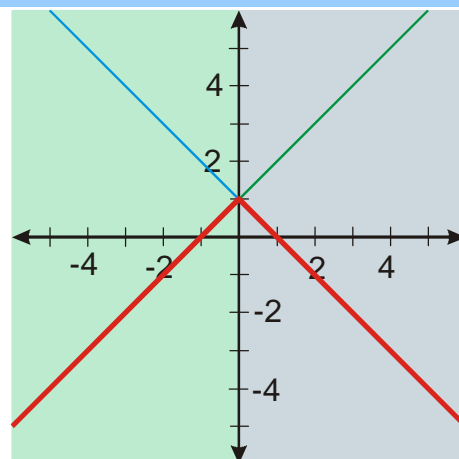
$$x \in \langle 0; \infty) \quad y = |x|-1 = x-1$$



Př: 4: $y = -|x|+1$

$$x \in (-\infty; 0) \quad y = -|x|+1 = -(-x)+1 = x+1$$

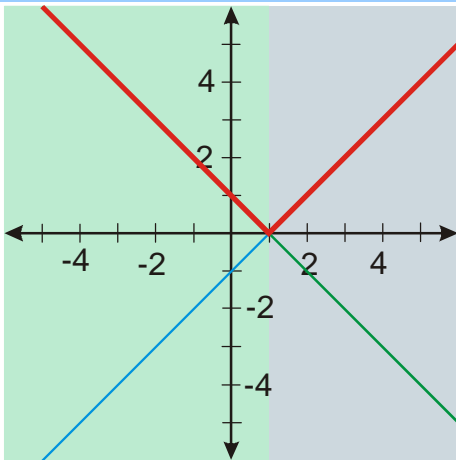
$$x \in \langle 0; \infty) \quad y = -|x|+1 = -x+1$$



Př. 5: $y = |-x+1|$

$x \in (-\infty; 1) \quad y = |-x+1| = -x+1$

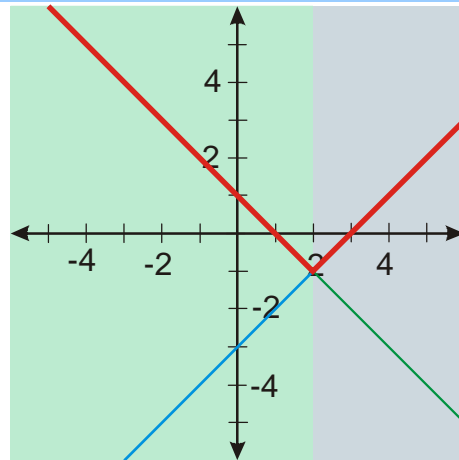
$x \in (1; \infty) \quad y = |-x+1| = x-1$



Př. 6: $y = |2-x|-1$

$x \in (-\infty; 2) \quad y = |2-x|-1 = 2-x-1 = -x+1$

$x \in (2; \infty) \quad y = |2-x|-1 = x-2-1 = x-3$



Př. 7: Petáková:

strana 28/cvičení 40 f_1, h_2, g_1