

$$f(x) = \frac{|x+1|}{x-2}$$

Asymptotes:  $x=0$   
 $y=0$

$$\frac{p+1}{0-2} = -\frac{1}{2}$$

$$NB \in [-\frac{1}{2}, -\frac{1}{5}]$$

$$NB [-1, -2]$$

$$0 = \frac{|x+1|}{x-2}$$

$$0 = |x+1|$$

$$\underline{x = -1}$$

SB:  $f'(x) = 0$

IF:  $f''(x) = 0$



EXTREMUM:  $f''(SB) > 0$  - lok. minimum

$f''(SB) < 0$  ... lok. maximum

MONOTONOST:  $D(f)$  - určité sk. body:  $D(f) = (-\infty, \infty)$   
 $SB [2, \infty)$

$$D(f) = (-\infty, 2) \cup (2, \infty)$$

$f'(x) < 0$  ... klesá na intervalu

$f'(x) > 0$  ... roste na intervalu

konveksi, konkav :  $D(f)$  - reaalitavalla inflex. bodat  
 $\inf: [1, \infty]$

$$D(f) = (-\infty, \infty)$$

$$(-\infty, 1)(1, \infty)$$

$f''(x) = \dots \geq 0$   $\cup$  - konveksi  
 $f''(x) = \dots < 0$   $\cap$  - konkav