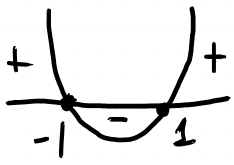
Ex 5 : 1. $\lim\limits_{x \to +\infty} f(x) = \lim\limits_{x \to +\infty} \frac{x^2}{x} = \lim\limits_{x \to +\infty} x = +\infty$

2. $\lim\limits_{\substack{x \to 3 \\ x > 3}} f(x) = \frac{3^2+1}{3-3} = \frac{10}{0} = +\infty$

Signe de $x-3$; $x-3 > 0 \iff x > 3$

Ex 6 : $\lim\limits_{\substack{x \to 1 \\ x < 1}} f(x) = \frac{1+2}{1-1} = \frac{3}{0} = -\infty$

Signe x^2-1 :



$\lim\limits_{\substack{x \to -1 \\ x > -1}} f(x) = \frac{-1+2}{1-1} = \frac{1}{0} = -\infty$