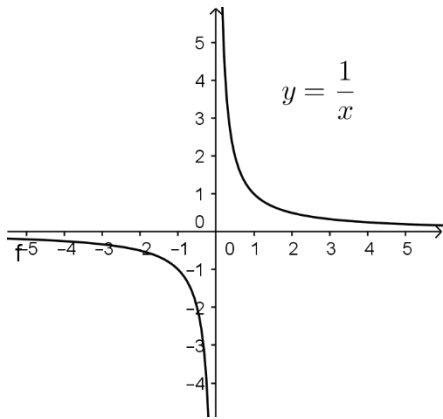
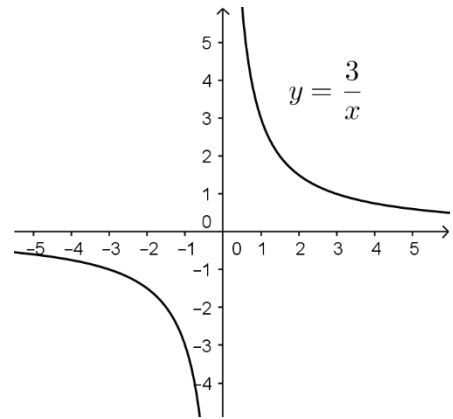


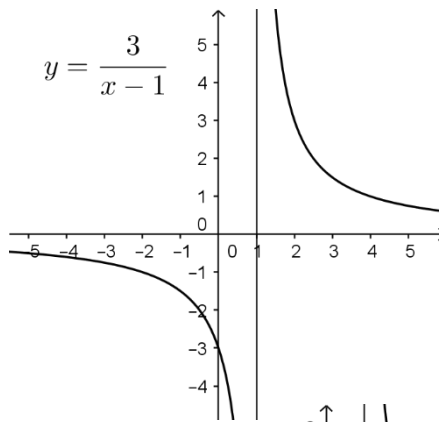
$$f(x) = \frac{x^2-4}{(x-1)(x-2)} = \frac{(x-2)(x+2)}{(x-1)(x-2)} \stackrel{x \neq 2}{=} \frac{x+2}{x-1} = \frac{x-1+3}{x-1} = 1 + \frac{3}{x-1}$$



ampliação vertical  
fator de multiplicação: 3

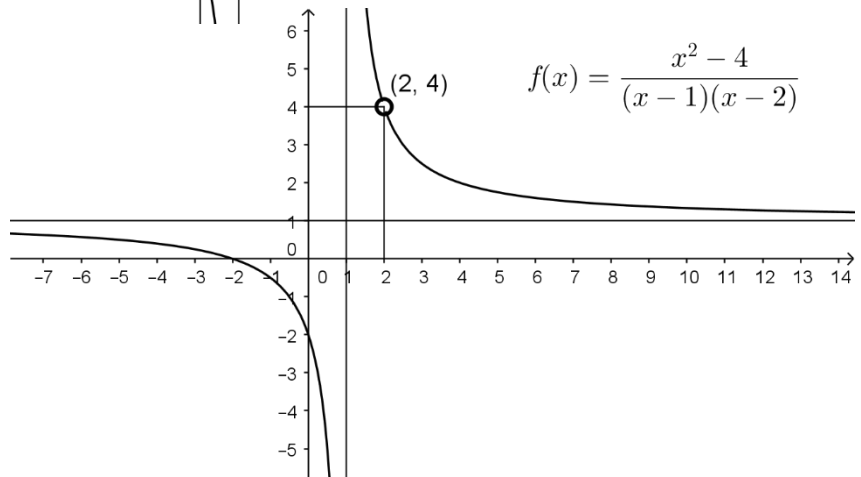


translação horizontal  
1 unidade para direita



translação vertical  
1 unidade para cima

$$f(x) = \frac{x^2-4}{(x-1)(x-2)} \stackrel{x \neq 2}{=} 1 + \frac{3}{x-1}$$



$x \cong 2, x > 2, f(x) \cong ???$  ou seja,

$$\lim_{x \rightarrow 2^+} f(x) = ???$$

$x \cong 2, x < 2, f(x) \cong ???$  ou seja,

$$\lim_{x \rightarrow 2^-} f(x) = ???$$

$x \cong 1, x > 1, f(x) \cong ???$  ou seja,

$$\lim_{x \rightarrow 1^+} f(x) = ???$$

$x \cong 1, x < 1, f(x) \cong ???$  ou seja,

$$\lim_{x \rightarrow 1^-} f(x) = ???$$