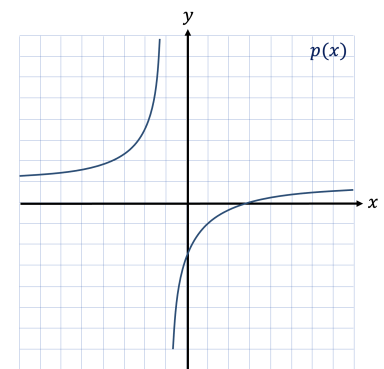
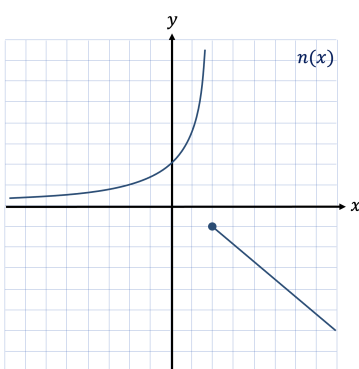
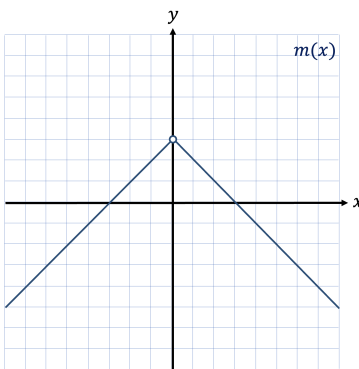
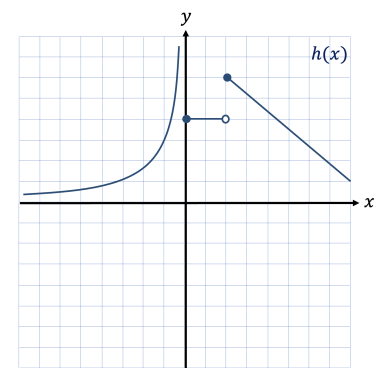
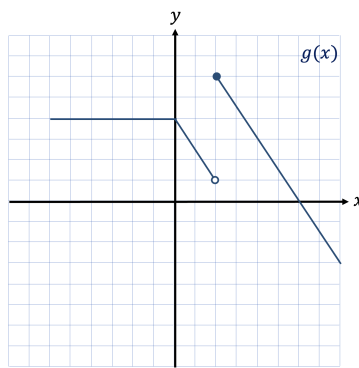
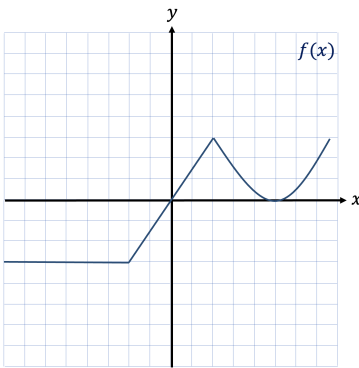


1) Calcule o que é pedido em cada caso:

- (a) $\lim_{x \rightarrow 2} x^2$, $\lim_{x \rightarrow 0^-} x^2$, $\lim_{x \rightarrow 0^+} x^2$, $\lim_{x \rightarrow 0} x^2$, $\lim_{x \rightarrow \infty} x^2$, $\lim_{x \rightarrow -\infty} x^2$
 (b) $\lim_{x \rightarrow 2} x^3$, $\lim_{x \rightarrow 0^-} x^3$, $\lim_{x \rightarrow 0^+} x^3$, $\lim_{x \rightarrow 0} x^3$, $\lim_{x \rightarrow \infty} x^3$, $\lim_{x \rightarrow -\infty} x^3$
 (c) $\lim_{x \rightarrow 1} \frac{1}{x}$, $\lim_{x \rightarrow 0^-} \frac{1}{x}$, $\lim_{x \rightarrow 0^+} \frac{1}{x}$, $\lim_{x \rightarrow 0} \frac{1}{x}$, $\lim_{x \rightarrow \infty} \frac{1}{x}$, $\lim_{x \rightarrow -\infty} \frac{1}{x}$
 (d) $\lim_{x \rightarrow 4} 2x$, $\lim_{x \rightarrow 0^-} 2x$, $\lim_{x \rightarrow 0^+} 2x$, $\lim_{x \rightarrow 0} 2x$, $\lim_{x \rightarrow \infty} 2x$, $\lim_{x \rightarrow -\infty} 2x$
 (e) $\lim_{x \rightarrow 10} \log(x)$, $\lim_{x \rightarrow 1} \log(x)$, $\lim_{x \rightarrow 0^+} \log(x)$, $\lim_{x \rightarrow 0} \log(x)$, $\lim_{x \rightarrow \infty} \log(x)$
 (f) $\lim_{x \rightarrow 1} 3^x$, $\lim_{x \rightarrow 0^-} 3^x$, $\lim_{x \rightarrow 0^+} 3^x$, $\lim_{x \rightarrow 0} 3^x$, $\lim_{x \rightarrow \infty} 3^x$, $\lim_{x \rightarrow -\infty} 3^x$
 (g) $\lim_{x \rightarrow 0} \sin(x)$, $\lim_{x \rightarrow -\infty} \sin(x)$, $\lim_{x \rightarrow +\infty} \sin(x)$, $\lim_{x \rightarrow 0} \cos(x)$, $\lim_{x \rightarrow +\infty} \cos(x)$, $\lim_{x \rightarrow -\infty} \cos(x)$

2) Considere os seguintes gráficos de funções:



Responda com V (Verdadeiro) ou F (Falso):

- | | | | |
|--|---|---|---|
| () $\lim_{x \rightarrow -\infty} f(x) = 3$ | () $\lim_{x \rightarrow +\infty} f(x) = +\infty$ | () $\lim_{x \rightarrow 2^-} f(x) = 3$ | () $\lim_{x \rightarrow -2^-} f(x) = 3$ |
| () $\lim_{x \rightarrow 0} g(x) = 4$ | () $\lim_{x \rightarrow +\infty} g(x) = -\infty$ | () $\lim_{x \rightarrow 2^+} g(x) = 6$ | () $\lim_{x \rightarrow 2^-} g(x) = 1$ |
| () $\lim_{x \rightarrow 0^-} h(x) = \infty$ | () $\lim_{x \rightarrow 0^+} h(x) = 4$ | () $\lim_{x \rightarrow 2^-} h(x) = 4$ | () $\lim_{x \rightarrow -\infty} h(x) = 0$ |
| () $\lim_{x \rightarrow 0^-} m(x) = 3$ | () $\lim_{x \rightarrow 0^+} m(x) = -3$ | () $\lim_{x \rightarrow 0} m(x) = 3$ | () $\lim_{x \rightarrow +\infty} m(x) = +\infty$ |
| () $\lim_{x \rightarrow 2^-} n(x) = -1$ | () $\lim_{x \rightarrow 2^+} n(x) = -1$ | () $\lim_{x \rightarrow 2} n(x) = -1$ | () $\lim_{x \rightarrow -\infty} n(x) = 0$ |
| () $\lim_{x \rightarrow -1^-} p(x) = +\infty$ | () $\lim_{x \rightarrow -1^+} p(x) = -\infty$ | () $\lim_{x \rightarrow -\infty} p(x) = 1$ | () $\lim_{x \rightarrow +\infty} p(x) = -1$ |