

1. Answer the questions about the functions graphed below.

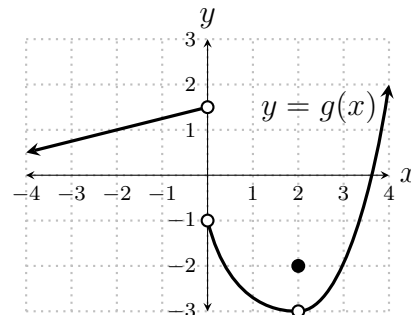
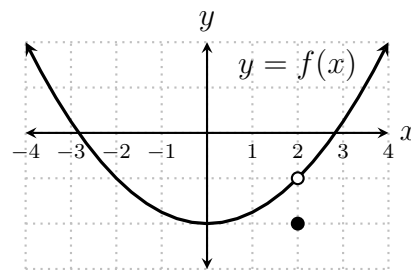
(a) $\frac{f(2)}{g(2)} =$

(b) $\lim_{x \rightarrow 2} \frac{f(x)}{g(x)} =$

(c) $\lim_{x \rightarrow 0^+} g(x) =$

(d) $\lim_{x \rightarrow -2} (2f(x) - 5g(x)) =$

(e) $\lim_{x \rightarrow 0} f(x)g(x) =$



2. $\lim_{x \rightarrow 3} \frac{\sqrt{x^2 + 4}}{2x} =$

3. $\lim_{x \rightarrow 1/5} \frac{5x + 1}{32^x} =$

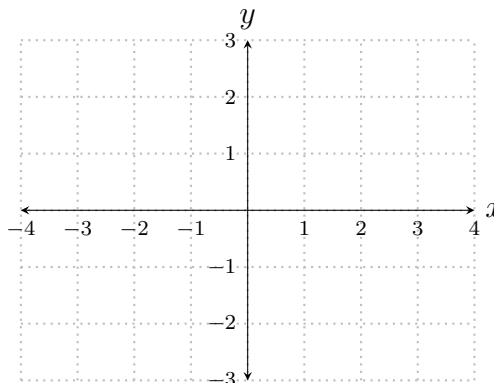
4. Draw the graph of **one** function f , with domain $[-2, 4]$, meeting the following conditions.

(a) $\lim_{x \rightarrow -2^+} f(x) = 1$

(b) $\lim_{x \rightarrow 2} f(x) = -1$

(c) $f(2) = 2$

(d) $\lim_{x \rightarrow 3} f(x) = 0$



1. Answer the questions about the functions graphed below.

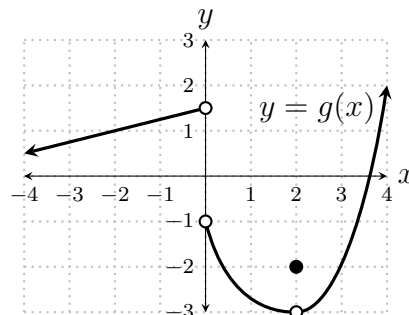
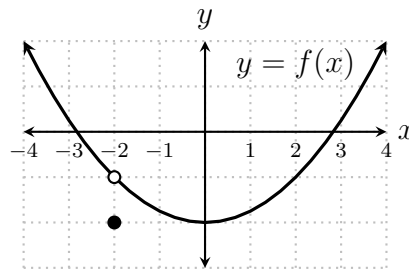
(a) $\frac{f(2)}{g(2)} =$

(b) $\lim_{x \rightarrow 2} \frac{f(x)}{g(x)} =$

(c) $\lim_{x \rightarrow 0} g(x) =$

(d) $\lim_{x \rightarrow 2} (2f(x) - 5g(x)) =$

(e) $\lim_{x \rightarrow 0^+} f(x)g(x) =$



2. $\lim_{x \rightarrow 1/4} \frac{16^x}{8x + 2} =$

3. $\lim_{x \rightarrow 2} \frac{\sqrt{x^2 + 4}}{2x} =$

4. Draw the graph of **one** function f , with domain $[-4, 2]$, meeting the following conditions.

(a) $\lim_{x \rightarrow 2^-} f(x) = 1$

(b) $\lim_{x \rightarrow -2} f(x) = -1$

(c) $f(-2) = 2$

(d) $\lim_{x \rightarrow -3} f(x) = 0$

