

1. Answer the questions about the functions graphed below.

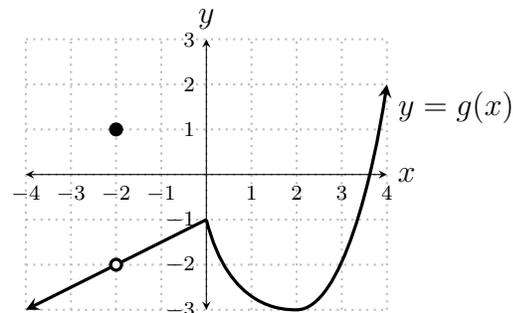
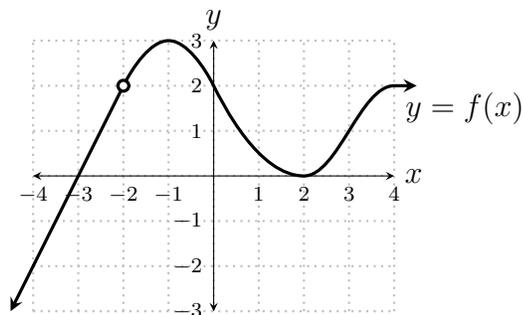
(a) $g(f(-4)) =$

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

(c) $\lim_{x \rightarrow -2} g(x) =$

(d) $\lim_{x \rightarrow 3} (2f(x) - g(x)) =$

(e) $\lim_{x \rightarrow -2} \frac{3 + f(x)}{\sqrt{7 + g(x)}} =$



2. $\lim_{x \rightarrow 3} \sqrt{\frac{x-1}{3} - \frac{5}{3x}} =$

3. $\lim_{x \rightarrow 1/3} \frac{8^x}{6x+1} =$

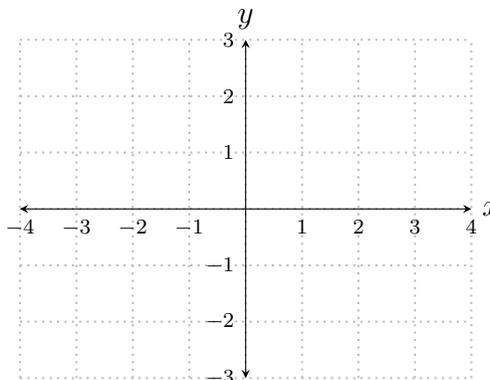
4. Draw the graph of **one** function f , with domain $[-4, 4]$, meeting the following conditions.

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

(b) $f(1) = 1$

(c) $\lim_{x \rightarrow 3^-} f(x) = 3$

(d) $\lim_{x \rightarrow 3^+} f(x) = -1$



1. Answer the questions about the functions graphed below.

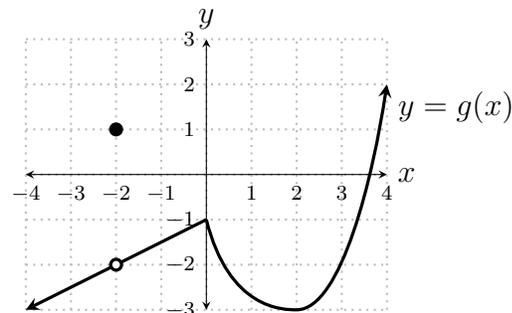
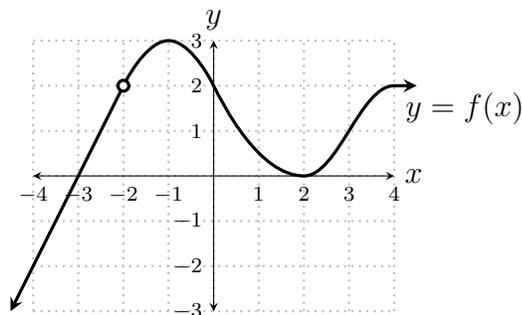
(a) $f(g(-4)) =$

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

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

(d) $\lim_{x \rightarrow 3} (2f(x) + 5g(x)) =$

(e) $\lim_{x \rightarrow -2} \frac{\sqrt{7 + g(x)}}{3 + f(x)} =$



2. $\lim_{x \rightarrow 1/3} \frac{27^x}{1 - x} =$

3. $\lim_{x \rightarrow 3} \sqrt{\frac{2}{3} - \frac{5}{3x}} =$

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

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

(b) $f(-3) = 2$

(c) $\lim_{x \rightarrow 1^-} f(x) = 3$

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

