

1. Answer the questions about the functions graphed below.

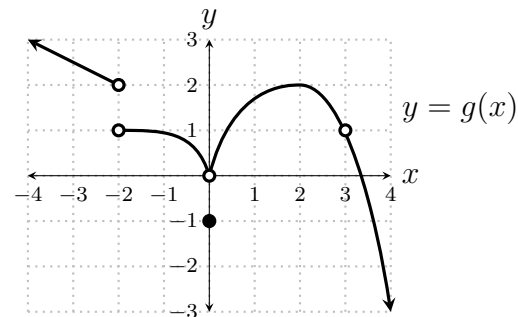
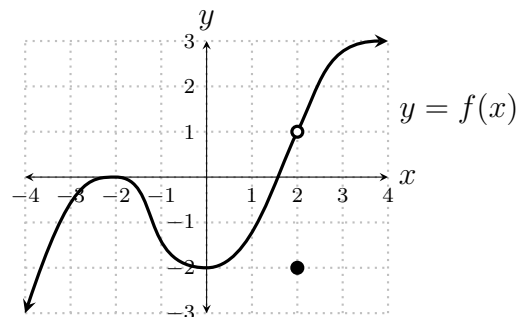
(a) $g(0) =$

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

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

(d) $\lim_{x \rightarrow -2^+} g(x) =$

(e) $\lim_{x \rightarrow 2} \left(\frac{f(x)}{4 + 2g(x)} \right)^{2/3} =$



2. $\lim_{x \rightarrow -2} (x^2 - 3x)^2 =$

3. $\lim_{x \rightarrow 0} e^x(x^3 + 5x + 3) =$

4. Draw the graph of **one** function f , with domain $(-4, 4)$, meeting **all** of the following conditions.

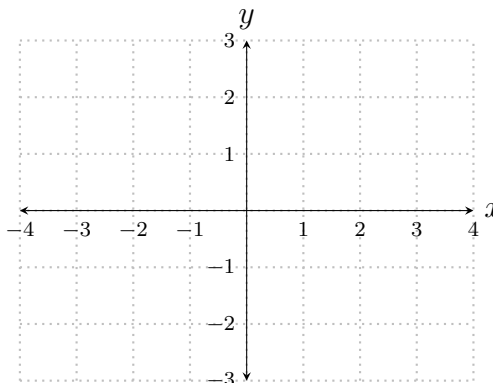
(a) $\lim_{x \rightarrow 2^-} f(x) = 2$

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

(c) $f(2) = 1$

(d) $\lim_{x \rightarrow -2} f(x) = 0$

(e) $f(-2) = 0$



1. Answer the questions about the functions graphed below.

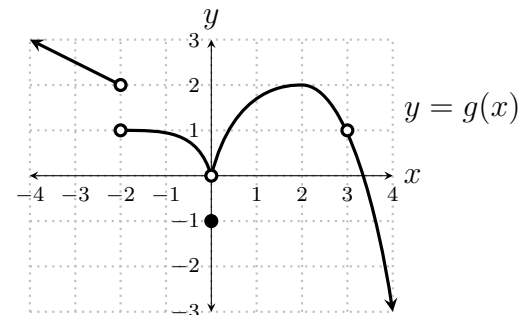
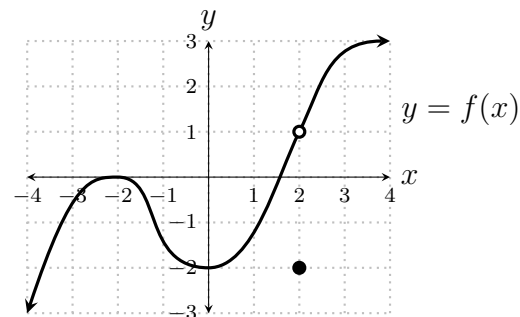
(a) $f(0) =$

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

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

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

(e) $\lim_{x \rightarrow 2} (f(x) + g(x) + 1)^{3/2} =$



2. $\lim_{x \rightarrow -2} \sqrt{x^2 - 3x + 6} =$

3. $\lim_{x \rightarrow 3} \left(\frac{1}{x} + \frac{x}{2} \right) =$

4. Draw the graph of **one** function f , with domain $(-4, 4)$, meeting **all** of the following conditions.

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

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

(c) $f(-2) = 1$

(d) $\lim_{x \rightarrow 2} f(x) = 0$

(e) $f(2) = 0$

