

1. Answer the questions about the functions graphed below.

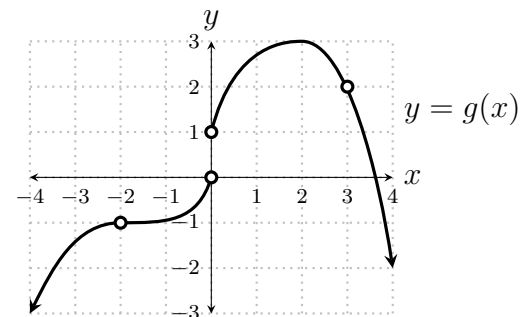
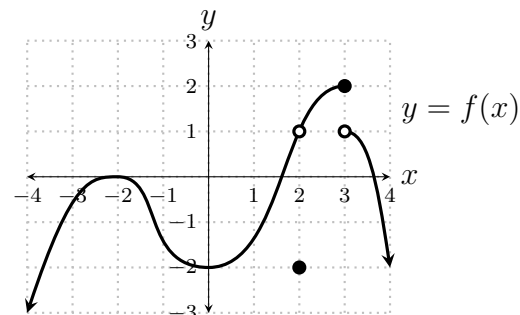
(a) $\lim_{x \rightarrow 3} f(x) =$

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

(c) $\lim_{x \rightarrow 3} g(x) =$

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

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



2. $\lim_{x \rightarrow 2} \sqrt{6x - x^2 + 1} =$

3. $\lim_{x \rightarrow 3} \frac{1}{\sqrt{3} + \sqrt{x}} =$

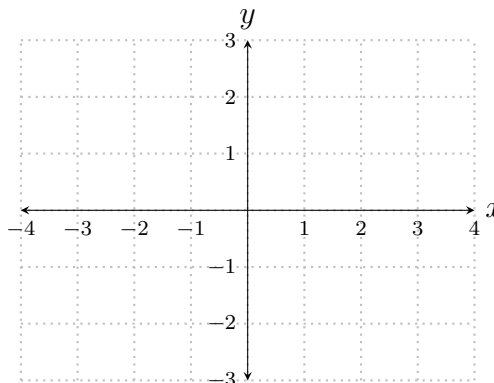
4. Draw the graph of **one** function f , with domain $(-4, 4)$, meeting **all** of the following conditions.

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

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

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

(d) $f(1) = 3$



1. Answer the questions about the functions graphed below.

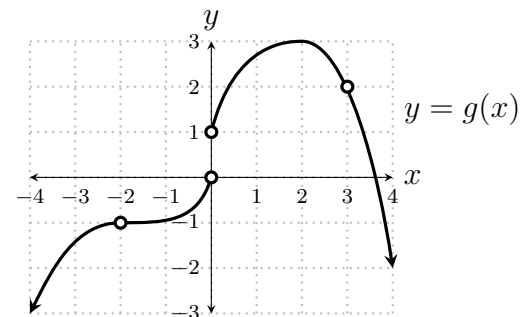
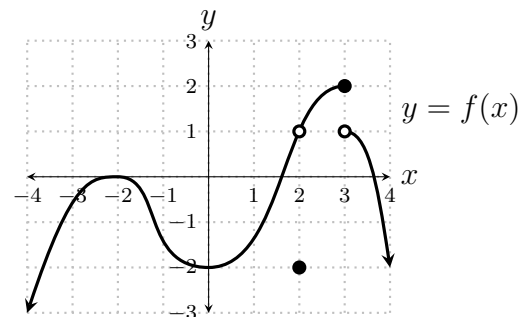
(a) $\lim_{x \rightarrow 0} f(x) =$

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

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

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

(e) $\lim_{x \rightarrow -2} \frac{3 + g(x)}{\sqrt{1 + f(x)}} =$



2. $\lim_{x \rightarrow 3} (6x - x^2 + 1)^2 =$

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

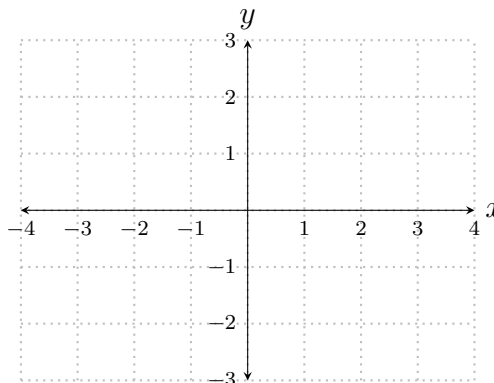
4. Draw the graph of **one** function f , with domain $(-4, 4)$, meeting **all** of the following conditions.

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

(b) $\lim_{x \rightarrow 3^+} f(x) = 3$

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

(d) $f(-1) = 3$



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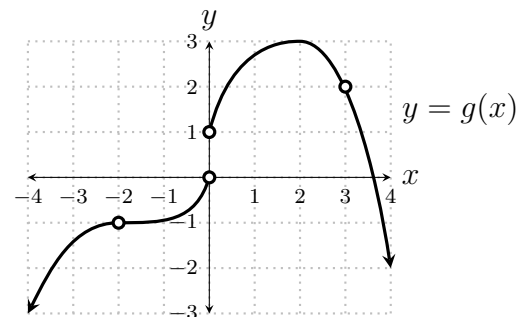
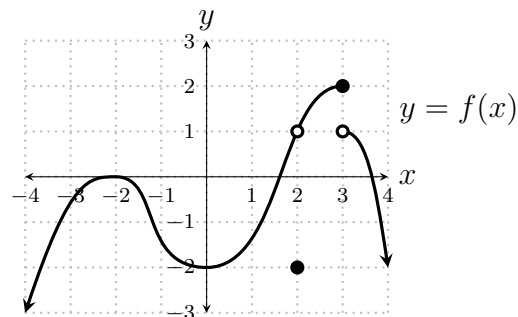
(a) $\lim_{x \rightarrow -2} f(x) =$

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

(c) $\lim_{x \rightarrow -2} (f(x) - 7g(x)) =$

(d) $\lim_{x \rightarrow 0^-} g(x) =$

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



2. $\lim_{x \rightarrow 3} \sqrt{6x - x^2 + 1} =$

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

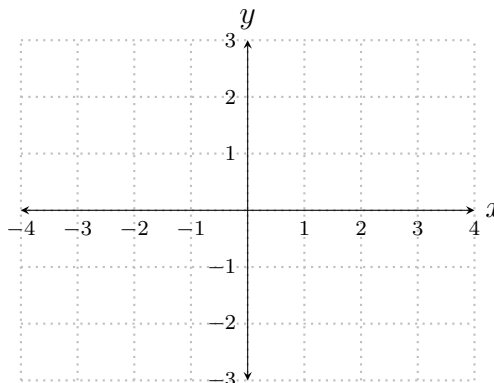
4. Draw the graph of **one** function f , with domain $(-4, 4)$, meeting **all** of the following conditions.

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

(b) $\lim_{x \rightarrow 0^+} f(x) = 1$

(c) $\lim_{x \rightarrow 2} f(x) = 3$

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



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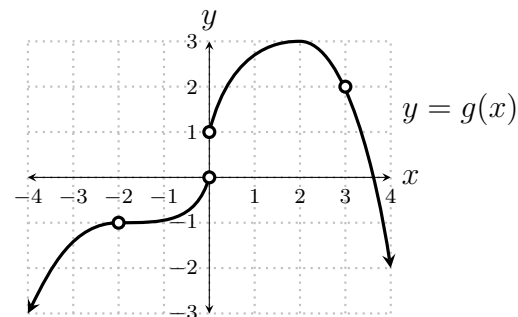
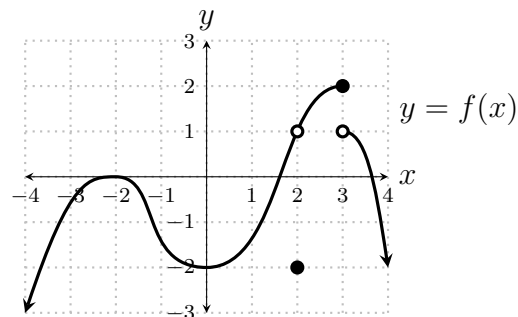
(a) $\lim_{x \rightarrow 2} g(x) =$

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

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

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

(e) $\lim_{x \rightarrow -2} \frac{3 + f(x)}{(6 + g(x))^2} =$



2. $\lim_{x \rightarrow -1} \sqrt{6x - x^2 + 11} =$

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

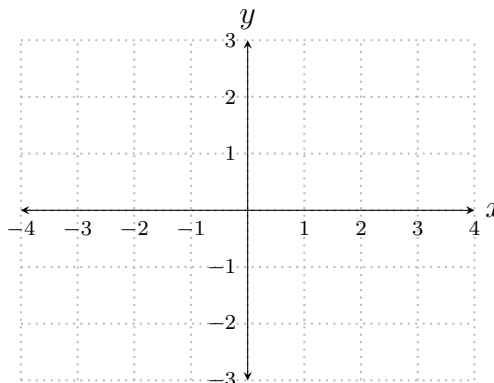
4. Draw the graph of **one** function f , with domain $(-4, 4)$, meeting **all** of the following conditions.

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

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

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

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



1. Answer the questions about the functions graphed below.

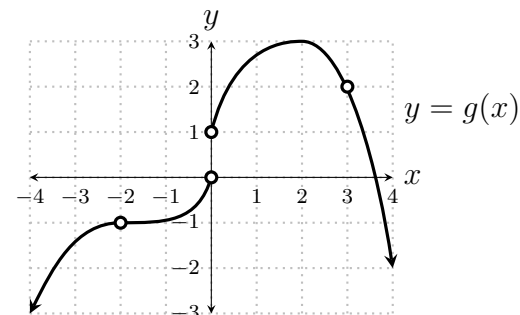
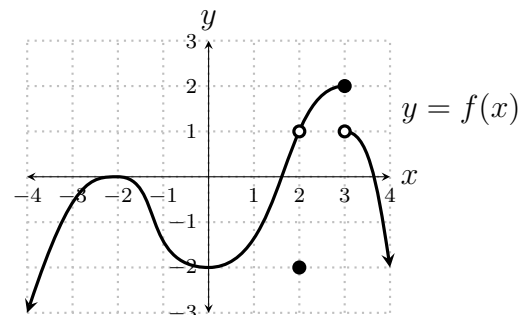
(a) $\lim_{x \rightarrow 3} g(x) =$

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

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

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

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



2. $\lim_{x \rightarrow 1} (6x - x^2 + 1)^2 =$

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

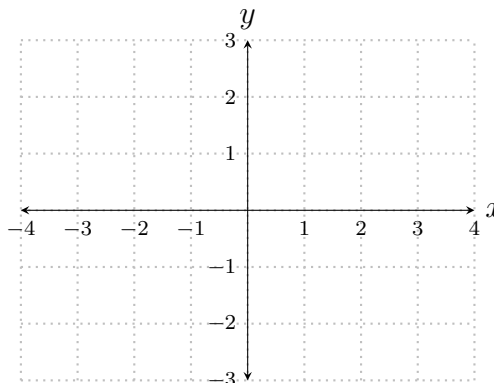
4. Draw the graph of **one** function f , with domain $(-4, 4)$, meeting **all** of the following conditions.

(a) $\lim_{x \rightarrow -3^+} f(x) = 2$

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

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

(d) $f(2) = 3$



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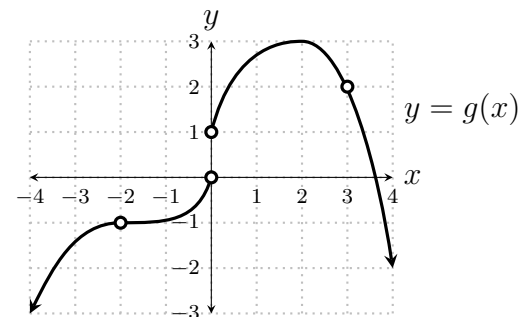
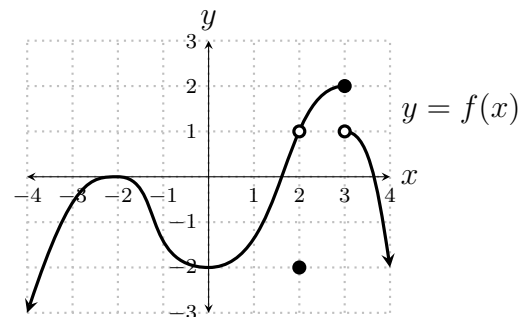
(a) $\lim_{x \rightarrow 3^+} f(x) =$

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

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

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

(e) $\lim_{x \rightarrow -2} \frac{\sqrt{3 + g(x)}}{1 + f(x)} =$



2. $\lim_{x \rightarrow 2} (4x - x^2 - 2)^3 =$

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

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

(a) $\lim_{x \rightarrow 3^+} f(x) = 2$

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

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

(d) $f(-1) = 3$

