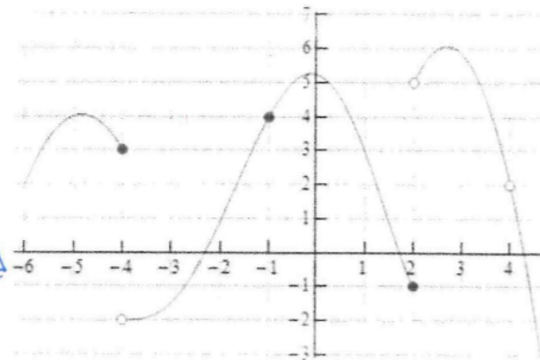


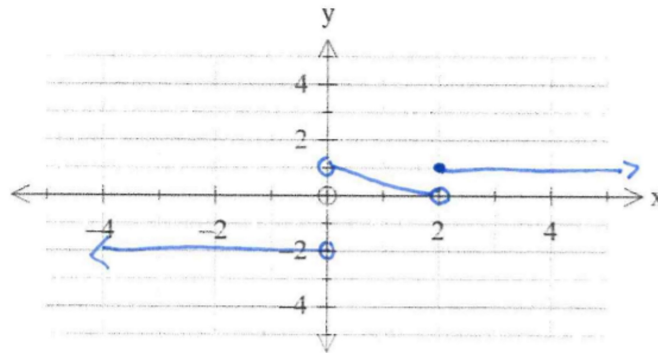
Practice Evaluating Limits Graphically

1. Use the graph of f at right to evaluate the following:

- a. $\lim_{x \rightarrow -1^+} f(x)$ 4 b. $\lim_{x \rightarrow -1^-} f(x)$ 4 c. $\lim_{x \rightarrow -1} f(x)$ 4
 d. $f(2)$ -1 e. $\lim_{x \rightarrow 2} f(x)$ DNE f. $\lim_{x \rightarrow 2^-} f(x)$ -1
 g. $\lim_{x \rightarrow 2^+} f(x)$ 5 h. $\lim_{x \rightarrow -4} f(x)$ DNE i. $f(4)$ undefined



2. Sketch a graph of a function that satisfies these conditions: $\lim_{x \rightarrow 0^-} f(x) = -1$, $\lim_{x \rightarrow 0^+} f(x) = 1$, $\lim_{x \rightarrow 2^-} f(x) = 0$, $\lim_{x \rightarrow 2^+} f(x) = 1$, $f(0)$ is undefined and $f(2) = 1$.



3. Use the graph of f below to evaluate the following:

- a. $\lim_{x \rightarrow 2} f(x)$ DNE b. $\lim_{x \rightarrow 1^-} f(x) = 3$ c. $\lim_{x \rightarrow 1^+} f(x) = 3$
 d. $\lim_{x \rightarrow 1} f(x) = 3$ e. $f(1) = 4$ f. $\lim_{x \rightarrow 3} f(x)$ DNE
 g. $f(3) = -2$

