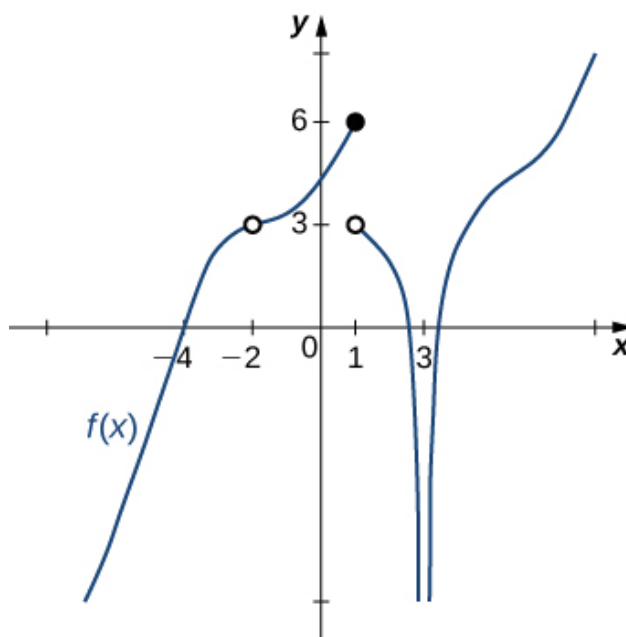


1. Evaluate the one-sided limit of the function  $f(x)$  below, if possible.

$$\lim_{x \rightarrow 5^+} \frac{-4}{(x+5)^8} + 4$$

- A.  $\infty$
  - B.  $f(5)$
  - C.  $-\infty$
  - D. The limit does not exist
  - E. None of the above
- 

2. For the graph below, evaluate the limit:  $\lim_{x \rightarrow -2} f(x)$ .



- A. 3
- B.  $-\infty$
- C. -2
- D. The limit does not exist
- E. None of the above

3. Evaluate the limit below, if possible.

$$\lim_{x \rightarrow 6} \frac{\sqrt{9x - 5} - 7}{8x - 48}$$

- A. 0.080
  - B. 0.375
  - C. 0.071
  - D.  $\infty$
  - E. None of the above
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4. Based on the information below, which of the following statements is always true?

*$f(x)$  approaches 11.009 as  $x$  approaches 2.*

- A.  $f(x)$  is close to or exactly 11.009 when  $x$  is close to 2
  - B.  $f(x) = 11.009$  when  $x$  is close to 2
  - C.  $f(x)$  is close to or exactly 2 when  $x$  is close to 11.009
  - D.  $f(x) = 2$  when  $x$  is close to 11.009
  - E. None of the above are always true.
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5. To estimate the one-sided limit of the function below as  $x$  approaches 6 from the right, which of the following sets of numbers should you use?

$$\frac{\frac{6}{x} - 1}{x - 6}$$

- A.  $\{6.1000, 6.0100, 6.0010, 6.0001\}$
- B.  $\{6.0000, 5.9000, 5.9900, 5.9990\}$
- C.  $\{6.0000, 6.1000, 6.0100, 6.0010\}$

D.  $\{5.9000, 5.9900, 5.9990, 5.9999\}$

E.  $\{5.9000, 5.9900, 6.0100, 6.1000\}$

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