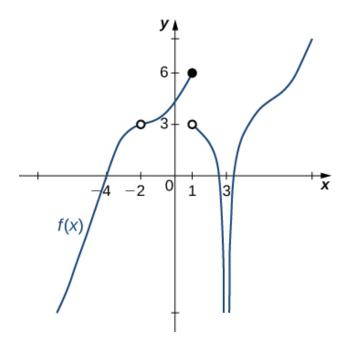
1. Evaluate the one-sided limit of the function f(x) below, if possible.

$$\lim_{x \to -8^{-}} \frac{6}{(x-8)^6} + 5$$

- A. f(-8)
- B. $-\infty$
- C. ∞
- D. The limit does not exist
- E. None of the above
- 2. For the graph below, evaluate the limit: $\lim_{x\to -4} f(x)$.



- A. $-\infty$
- B. -6
- C. 0
- D. The limit does not exist
- E. None of the above

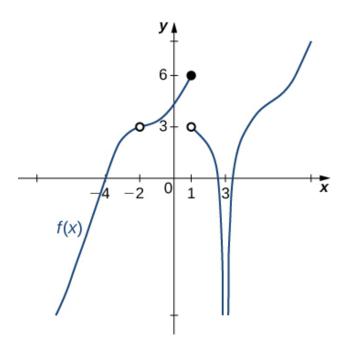
3. To estimate the one-sided limit of the function below as x approaches 4 from the left, which of the following sets of numbers should you use?

$$\frac{\frac{4}{x}-1}{x-4}$$

- A. {3.9000, 3.9900, 3.9990, 3.9999}
- B. $\{4.0000, 3.9000, 3.9900, 3.9990\}$
- C. $\{4.1000, 4.0100, 4.0010, 4.0001\}$
- D. {3.9000, 3.9900, 4.0100, 4.1000}
- E. $\{4.0000, 4.1000, 4.0100, 4.0010\}$
- 4. Based on the information below, which of the following statements is always true?

f(x) approaches 3.476 as x approaches 1.

- A. f(1) is close to or exactly 3
- B. f(3) is close to or exactly 1
- C. f(3) = 1
- D. f(1) = 3
- E. None of the above are always true.
- 5. For the graph below, evaluate the limit: $\lim_{x\to 1} f(x)$.



- A. 3
- B. 6
- C. $-\infty$
- D. The limit does not exist
- E. None of the above
- 6. Evaluate the one-sided limit of the function f(x) below, if possible.

$$\lim_{x \to 4^+} \frac{7}{(x-4)^9} + 9$$

- A. $-\infty$
- B. f(4)
- C. ∞
- D. The limit does not exist
- E. None of the above

7. To estimate the one-sided limit of the function below as x approaches 3 from the right, which of the following sets of numbers should you use?

$$\frac{\frac{3}{x}-1}{x-3}$$

- A. {3.0000, 2.9000, 2.9900, 2.9990}
- B. $\{3.1000, 3.0100, 3.0010, 3.0001\}$
- $C. \{2.9000, 2.9900, 2.9990, 2.9999\}$
- D. $\{2.9000, 2.9900, 3.0100, 3.1000\}$
- E. $\{3.0000, 3.1000, 3.0100, 3.0010\}$
- 8. Based on the information below, which of the following statements is always true?

f(x) approaches 7.145 as x approaches 2.

- A. f(x) = 2 when x is close to 7.145
- B. f(x) = 7.145 when x is close to 2
- C. f(x) is close to or exactly 7.145 when x is close to 2
- D. f(x) is close to or exactly 2 when x is close to 7.145
- E. None of the above are always true.
- 9. Evaluate the limit below, if possible.

$$\lim_{x \to 8} \frac{\sqrt{9x - 23} - 7}{7x - 56}$$

- A. 0.429
- B. ∞
- C. 0.010
- D. 0.071
- E. None of the above

10. Evaluate the limit below, if possible.

$$\lim_{x \to 7} \frac{\sqrt{4x - 12} - 4}{9x - 63}$$

- A. 0.014
- B. 0.125
- C. 0.056
- D. ∞
- E. None of the above