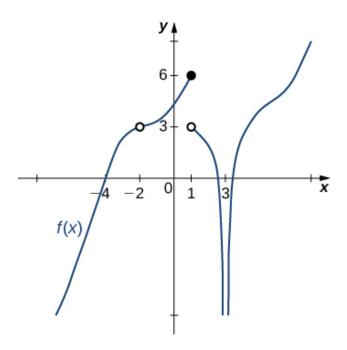
1. Evaluate the one-sided limit of the function f(x) below, if possible.

$$\lim_{x \to 8^{-}} \frac{3}{(x-8)^5} + 5$$

- A. $-\infty$
- B. ∞
- C. f(8)
- D. The limit does not exist
- E. None of the above
- 2. Based on the information below, which of the following statements is always true?

f(x) approaches 4.19 as x approaches ∞ .

- A. f(x) is close to or exactly ∞ when x is large enough.
- B. f(x) is close to or exactly 4.19 when x is large enough.
- C. f(x) is undefined when x is large enough.
- D. f(x) is undefined when f(x) is large enough.
- E. None of the above are always true.
- 3. For the graph below, evaluate the limit: $\lim_{x\to -2} f(x)$.



- A. $-\infty$
- B. -2
- C. 3
- D. The limit does not exist
- E. None of the above
- 4. Evaluate the limit below, if possible.

$$\lim_{x \to 4} \frac{\sqrt{6x - 8} - 4}{7x - 28}$$

- A. ∞
- B. 0.018
- C. 0.350
- D. 0.125
- E. None of the above

5. To estimate the one-sided limit of the function below as x approaches 1 from the left, which of the following sets of numbers should you use?

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

- A. {1.0000, 0.9000, 0.9900, 0.9990}
- B. {1.1000, 1.0100, 1.0010, 1.0001}
- C. {0.9000, 0.9900, 0.9990, 0.9999}
- D. {0.9000, 0.9900, 1.0100, 1.1000}
- E. {1.0000, 1.1000, 1.0100, 1.0010}