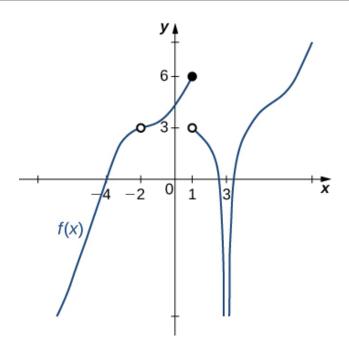
1. Evaluate the limit below, if possible.

$$\lim_{x \to 6} \frac{\sqrt{9x - 5} - 7}{5x - 30}$$

- A. 0.014
- B. ∞
- C. 0.129
- D. 0.071
- E. None of the above
- 2. Based on the information below, which of the following statements is always true?

$$f(x)$$
 approaches 4.73 as x approaches 3.

- A. f(x) = 3 when x is close to 4.73
- B. f(x) is close to or exactly 3 when x is close to 4.73
- C. f(x) is close to or exactly 4.73 when x is close to 3
- D. f(x) = 4.73 when x is close to 3
- E. None of the above are always true.
- 3. For the graph below, find the value(s) a that makes the limit true: $\lim_{x\to a} f(x)$ does not exist.



- A. -2
- B. 1
- C. 3
- D. Multiple a make the limit true.
- E. No a make the limit true.
- 4. Evaluate the one-sided limit of the function f(x) below, if possible.

$$\lim_{x \to 1^{-}} \frac{2}{(x+1)^6} + 8$$

- A. f(1)
- B. ∞
- C. $-\infty$
- D. The limit does not exist
- 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. {0.9000, 0.9900, 0.9990, 0.9999}
- B. {1.0000, 0.9000, 0.9900, 0.9990}
- C. {1.0000, 1.1000, 1.0100, 1.0010}
- D. {0.9000, 0.9900, 1.0100, 1.1000}
- E. {1.1000, 1.0100, 1.0010, 1.0001}