1. 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. $\{5.9000, 5.9900, 5.9990, 5.9999\}$

   B. $\{6.1000, 6.0100, 6.0010, 6.0001\}$

   C. $\{6.0000, 6.1000, 6.0100, 6.0010\}$

   D. $\{6.0000, 5.9000, 5.9900, 5.9990\}$

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

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2. Based on the information below, which of the following statements is always true?

$$f(x) \ approaches \ 2.96 \ as \ x \ approaches \ 0.$$

   A. $f(2) = 0$

   B. $f(0) = 2$

   C. $f(0)$ is close to or exactly 2

   D. $f(2)$ is close to or exactly 0

   E. None of the above are always true.

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

$$\lim_{x \to -6^-} \frac{2}{(x - 6)^5} + 5$$

   A. ∞

   B. $-\infty$

   C. $f(-6)$

   D. The limit does not exist

    E. None of the above

4. Evaluate the limit below, if possible.

$$\lim_{x \to 8} \frac{\sqrt{5x - 15} - 5}{7x - 56}$$

    A. 0.014

    B. ∞
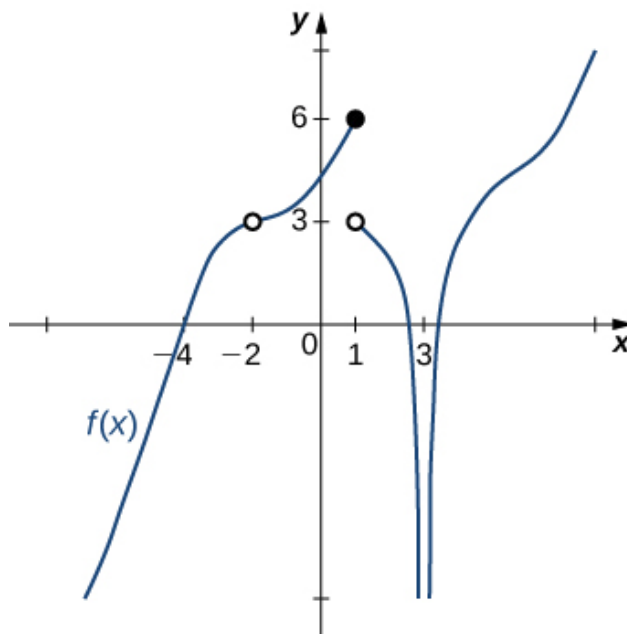
    C. 0.100

    D. 0.319

    E. None of the above

5. For the graph below, find the value(s) a that makes the limit true: $\lim_{x \to a} f(x)$ does not exist.

    A. 3

    B. 1

    C. -2

D. Multiple a make the limit true.

E. No a make the limit true.