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

   As x approaches ∞, f(x) approaches 1.957.

   A. $f(x)$ is close to or exactly 1.957 when x is large enough.

   B. $f(x)$ is undefined when x is large enough.

   C. $f(x)$ is close to or exactly ∞ when x is large enough.

   D. $f(x)$ is undefined when $f(x)$ is large enough.

   E. None of the above are always true.

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2. 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. $\{5.9000, 5.9900, 6.0100, 6.1000\}$

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

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

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

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

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3. For the graph below, find the value(s) a that makes the limit true: $\lim_{x \to a} f(x) = -\infty$.
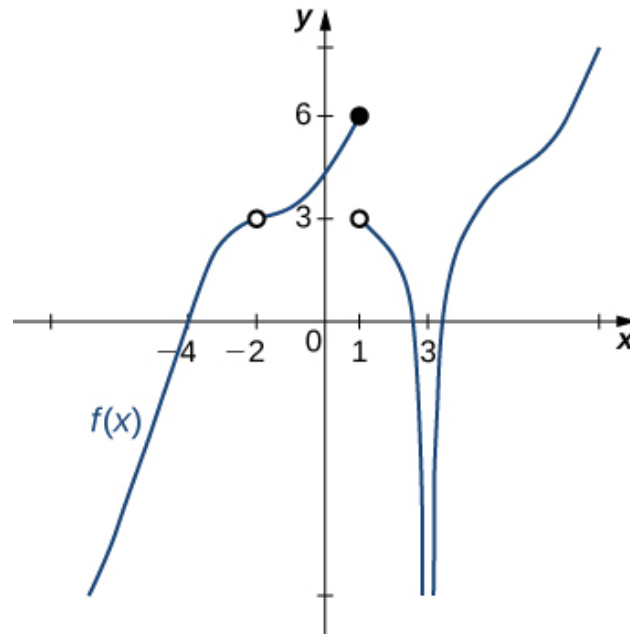
A. -2

B. 3

C. $-\infty$

D. Multiple a make the limit true.

E. No a make the limit true.

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

$$\lim_{x \to 2^+} \frac{1}{(x+2)^8} + 3$$

A. $f(2)$

B. $-\infty$

C. ∞

D. The limit does not exist

E. None of the above

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5. Evaluate the limit below, if possible.

$$\lim_{x \to 9} \frac{\sqrt{8x - 47} - 5}{4x - 36}$$

A. 0.707

B. 0.200

C. ∞

D. 0.100

E. None of the above