1. Evaluate the limit below, if possible.

$$\lim_{x\to 8} \frac{\sqrt{6x-12}-6}{2x-16}$$

A. 0.083

B. ∞

C. 1.225

D. 0.250

E. None of the above

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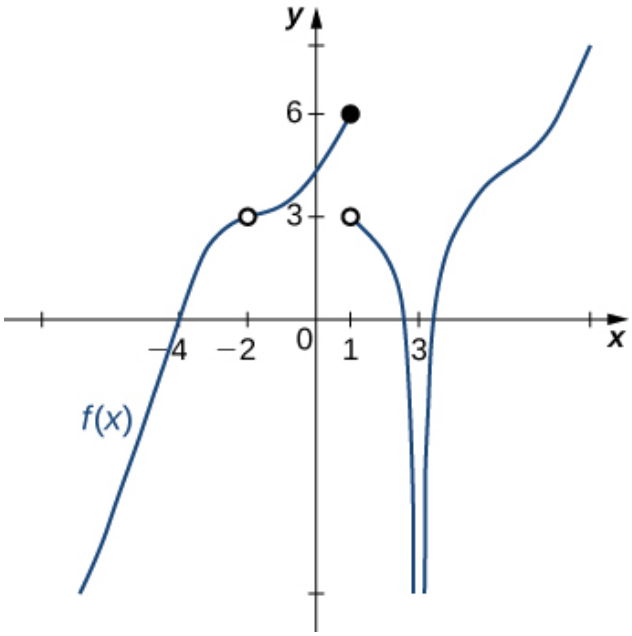
2. For the graph below, find the value(s) a that makes the limit true: $\lim_{x\to a} f(x) = -\infty$.



A. -2

B. $-\infty$

C. 3

D. Multiple a make the limit true.

E. No a make the limit true.

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

$$\frac{\frac{7}{x} - 1}{x - 7}$$

A. $\{7.0000, 6.9000, 6.9900, 6.9990\}$

B. $\{6.9000, 6.9900, 6.9990, 6.9999\}$

C. $\{7.1000, 7.0100, 7.0010, 7.0001\}$

D. $\{7.0000, 7.1000, 7.0100, 7.0010\}$

E. $\{6.9000, 6.9900, 7.0100, 7.1000\}$

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

$$\lim_{x \to -4^+} \frac{-6}{(x-4)^9} + 2$$

A. ∞

B. $f(-4)$

C. $-\infty$

D. The limit does not exist

E. None of the above

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

As x approaches 2, $f(x)$ *approaches* 16.325.

A. $f(16) = 2$

B. $f(2) = 16$

C. $f(16)$ is close to or exactly 2

D. $f(2)$ is close to or exactly 16

E. None of the above are always true.
