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

$$\lim_{x \to -4^-} \frac{1}{(x-4)^8} + 8$$

A. ∞

B. $-\infty$

C. $f(-4)$

D. The limit does not exist

E. None of the above

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2. 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. $\{0.9000, 0.9900, 1.0100, 1.1000\}$

B. $\{0.9000, 0.9900, 0.9990, 0.9999\}$

C. $\{1.0000, 1.1000, 1.0100, 1.0010\}$

D. $\{1.0000, 0.9000, 0.9900, 0.9990\}$
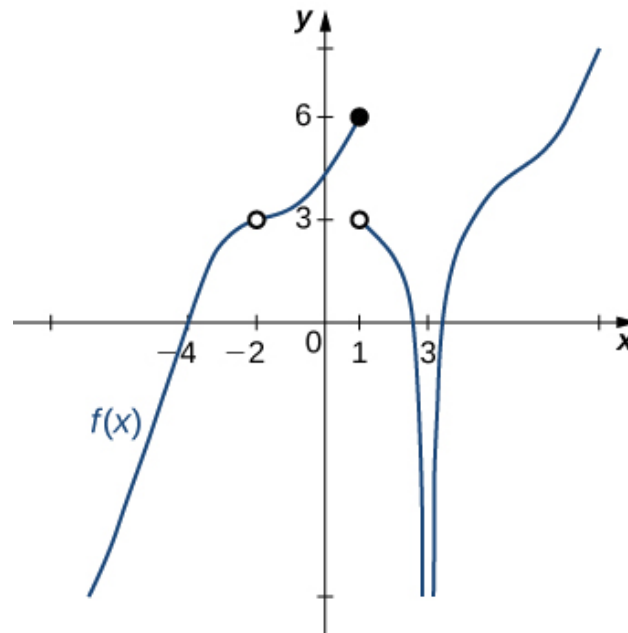
E. $\{1.1000, 1.0100, 1.0010, 1.0001\}$

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

$$\lim_{x \to 5^-} \frac{8}{(x-5)^5} + 6$$

A. $-\infty$

B. ∞

C. $f(5)$

D. The limit does not exist

E. None of the above

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4. For the graph below, find the value(s) a that makes the statement true:
   $\lim\limits_{x \to a} f(x) = 0$.

A. -4

B. 0

C. 3

D. Multiple a make the statement true.
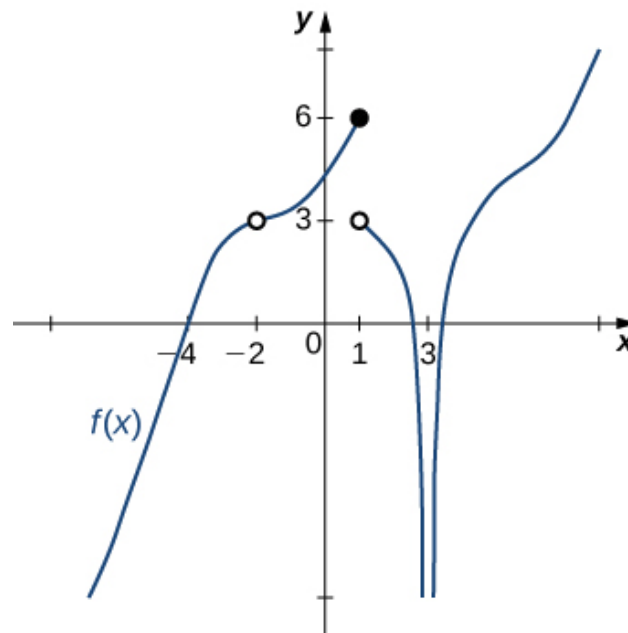
E. No a make the statement true.

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5. Evaluate the limit below, if possible.

$$\lim_{x \to 8} \frac{\sqrt{8x - 28} - 6}{6x - 48}$$

A. 0.471

B. 0.014

C. 0.083

D. ∞

E. None of the above

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6. For the graph below, evaluate the limit: $\lim\limits_{x \to 1} f(x)$.

A. 6

B. $-\infty$

C. 3

D. The limit does not exist

E. None of the above

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

As x approaches 7, f(x) approaches 0.885.

A. $f(7)$ is close to or exactly 0

B. $f(0) = 7$

C. $f(0)$ is close to or exactly 7

D. $f(7) = 0$

E. None of the above are always true.

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8. Evaluate the limit below, if possible.

$$\lim_{x \to 9} \frac{\sqrt{7x - 47} - 4}{3x - 27}$$

A. 0.125

B. 0.292

C. 0.882

D. ∞

E. None of the above

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

f(x) approaches 19.882 *as x approaches* 3.

A. $f(19) = 3$

B. $f(3)$ is close to or exactly 19

C. $f(3) = 19$

D. $f(19)$ is close to or exactly 3

E. None of the above are always true.

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10. To estimate the one-sided limit of the function below as x approaches 10 from the left, which of the following sets of numbers should you use?

$$\frac{\frac{10}{x} - 1}{x - 10}$$

A. $\{10.0000, 10.1000, 10.0100, 10.0010\}$

B. $\{9.9000, 9.9900, 9.9990, 9.9999\}$

C. $\{10.0000, 9.9000, 9.9900, 9.9990\}$

D. $\{10.1000, 10.0100, 10.0010, 10.0001\}$

E. $\{9.9000, 9.9900, 10.0100, 10.1000\}$