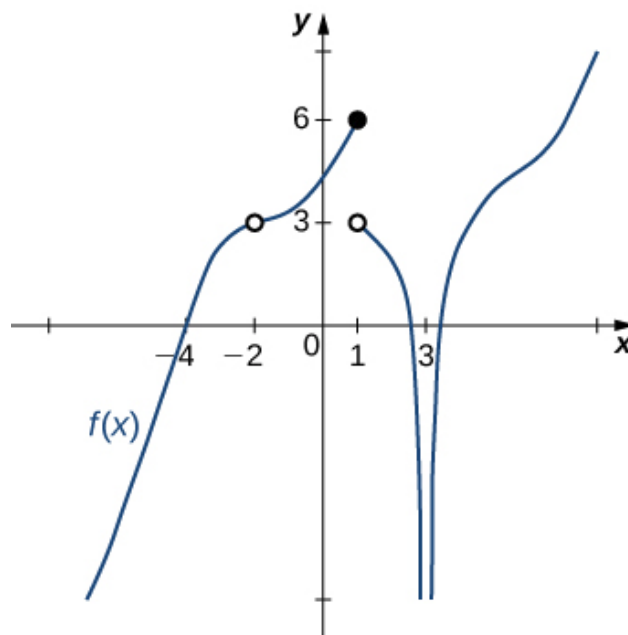


1. For the graph below, find the value(s) a that makes the limit true:
 $\lim_{x \rightarrow a} f(x)$ does not exist.



- A. 1
B. 3
C. -2
D. Multiple a make the limit true.
E. No a make the limit true.
-
2. Based on the information below, which of the following statements is always true?

$f(x)$ approaches 13.42 as x approaches ∞ .

- A. $f(x)$ is close to or exactly 13.42 when x is large enough.
B. x is undefined when $f(x)$ is large enough.
C. $f(x)$ is undefined when x is large enough.
D. $f(x)$ is close to or exactly ∞ when x is large enough.
E. None of the above are always true.

3. 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. $\{6.0000, 6.1000, 6.0100, 6.0010\}$
 - B. $\{5.9000, 5.9900, 6.0100, 6.1000\}$
 - C. $\{6.0000, 5.9000, 5.9900, 5.9990\}$
 - D. $\{5.9000, 5.9900, 5.9990, 5.9999\}$
 - E. $\{6.1000, 6.0100, 6.0010, 6.0001\}$
-

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

$$\lim_{x \rightarrow -1^+} \frac{8}{(x + 1)^4} + 6$$

- A. $f(-1)$
 - B. $-\infty$
 - C. ∞
 - D. The limit does not exist
 - E. None of the above
-

5. Evaluate the limit below, if possible.

$$\lim_{x \rightarrow 8} \frac{\sqrt{7x - 20} - 6}{4x - 32}$$

- A. ∞
- B. 0.661

C. 0.083

D. 0.021

E. None of the above
