

1. List 10 numbers you should use to estimate the one-sided limit of the function below as x approaches 7 from the right.

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

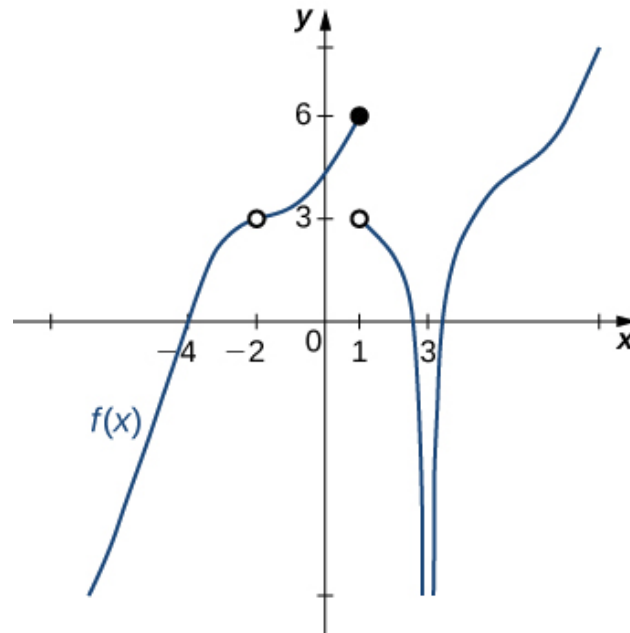
2. Evaluate the limit below, if possible.

$$\lim_{x \rightarrow 6} \frac{\sqrt{4x - 8} - 4}{7x - 42}$$

3. Based on the information below, what can be said about (a.) $f(7)$ and (b.) $f(x)$ when x is close to 7?

$f(x)$ approaches 10.049 as x approaches 7.

4. For the graph below, evaluate the limit: $\lim_{x \rightarrow -4} f(x)$.



5. List 10 numbers you should use to estimate the one-sided limit of the function below as x approaches 8 from the left.

$$\frac{\frac{8}{x} - 1}{x - 8}$$

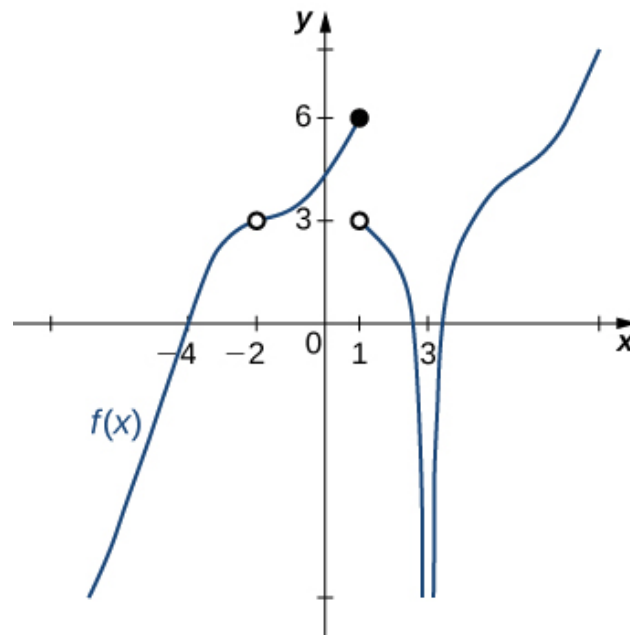
6. Based on the information below, what can be said about (a.) $f(1)$ and (b.) $f(x)$ when x is close to 1?

As x approaches 1, $f(x)$ approaches ∞ .

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

$$\lim_{x \rightarrow 1^-} \frac{5}{(x+1)^4} + 1$$

8. For the graph below, find the value(s) a that makes the statement true:
 $\lim_{x \rightarrow a} f(x) = 0$.



9. Evaluate the limit below, if possible.

$$\lim_{x \rightarrow 5} \frac{\sqrt{4x - 4} - 4}{2x - 10}$$

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

$$\lim_{x \rightarrow -7^-} \frac{5}{(x+7)^9} + 5$$