1. List 10 numbers you should use to estimate the one-sided limit of the function below as x approaches 4 from the right.

$$\frac{\frac{4}{x} - 1}{x - 4}$$

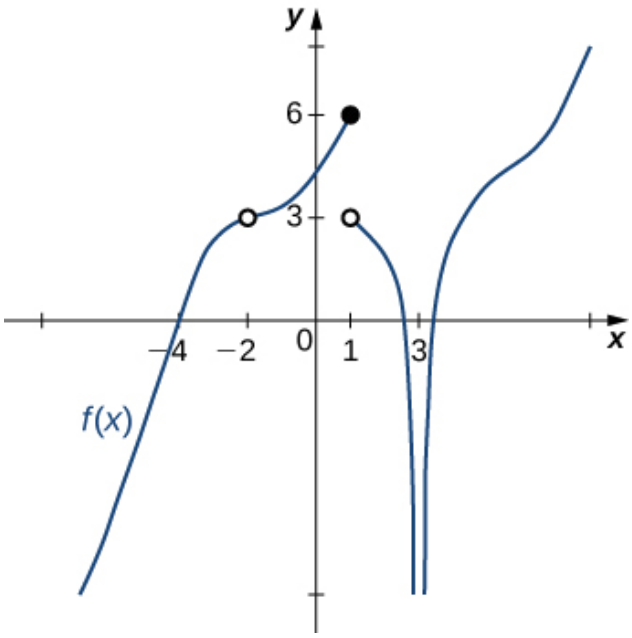
2. Evaluate the limit below, if possible.

$$\lim_{x \to 8} \frac{\sqrt{7x - 40} - 4}{3x - 24}$$

3. Based on the information below, what can be said about (a.) $f(8)$ and (b.) $f(x)$ when x is close to 8?

$$As\ x\ approaches\ 8,\ f(x)\ approaches\ 13.449.$$

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



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

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

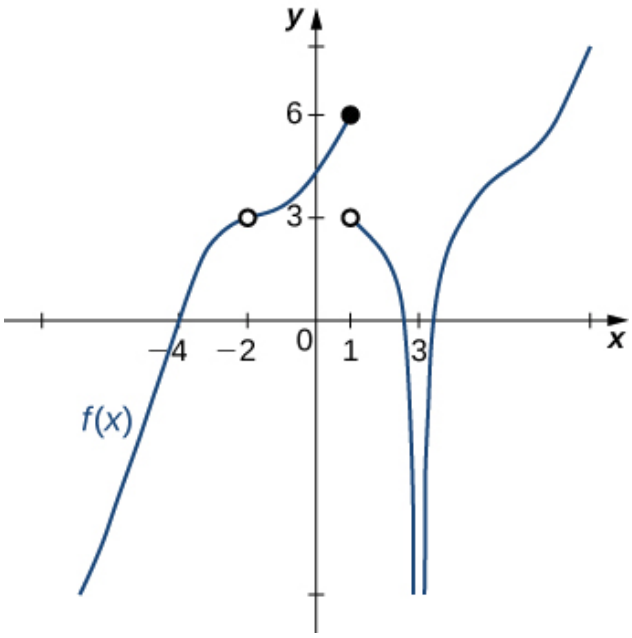
6. Based on the information below, what can be said about (a.) $f(3)$ and (b.) $f(x)$ when x is close to 3?

$$f(x) \text{ approaches } \infty \text{ as } x \text{ approaches } 3.$$

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

$$\lim_{x \to -4^-} \frac{4}{(x+4)^7} + 4$$

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



9. Evaluate the limit below, if possible.

$$\lim_{x \to 4} \frac{\sqrt{8x - 16} - 4}{7x - 28}$$

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

$$\lim_{x \to -4^-} \frac{7}{(x+4)^8} + 1$$