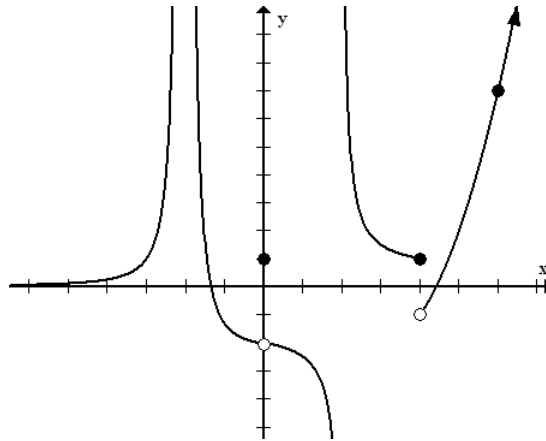


1. Consider the following graph. If a limit does not exist, write "DNE".



$$\lim_{x \rightarrow -2} f(x)$$

$$f(-2)$$

$$\lim_{x \rightarrow 0} f(x)$$

$$f(0)$$

$$\lim_{x \rightarrow 4^-} f(x)$$

$$\lim_{x \rightarrow 4^+} f(x)$$

$$\lim_{x \rightarrow 4} f(x)$$

$$\lim_{x \rightarrow 6} f(x)$$

$$\lim_{x \rightarrow 2} f(x)$$

2. Is $f(x)$ continuous at $x = 0$. Explain.

3. If $f(x) = \begin{cases} 8 - 2x & \text{if } x \leq 4 \\ \sqrt{x - 4} & \text{if } x > 4 \end{cases}$

Is $f(x)$ continuous at $x = 4$? Explain.