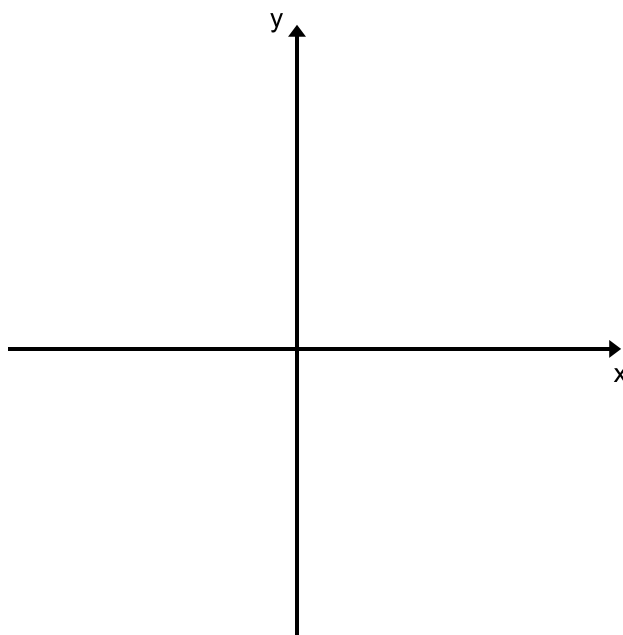


You are NOT allowed to use a calculator for this assessment

- Graph the related piecewise function be sure to label the boundary points appropriately with proper type of points and coordinates
- It is an expectation that when you graph functions that any x intercept is labeled with a coordinate
- Determine the limits of each of the functions when possible and state WHY specifically a limit is impossible when necessary

$$f(x) = \begin{cases} 2x+4 & \text{for } x \leq 1 \\ -3x+9 & \text{for } 1 < x \leq 3 \\ 5 & \text{for } x > 3 \end{cases}$$



$$\lim_{x \rightarrow 1^-} f(x)$$

$$\lim_{x \rightarrow 3^-} f(x)$$

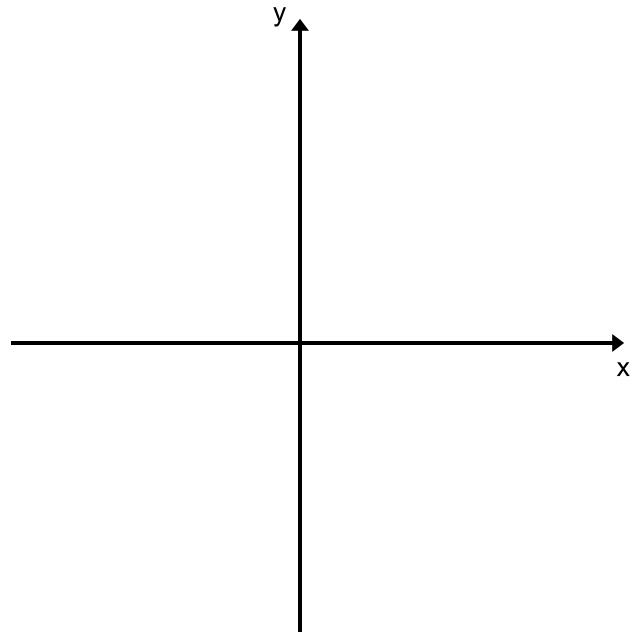
$$\lim_{x \rightarrow 1^+} f(x)$$

$$\lim_{x \rightarrow 3^+} f(x)$$

$$\lim_{x \rightarrow 1} f(x)$$

$$\lim_{x \rightarrow 3} f(x)$$

$$g(x) = \begin{cases} -2x^2 + 4 & \text{for } x < 0 \\ 4x - 8 & \text{for } 0 \leq x < 2 \\ \sqrt{x-2} & \text{for } x \geq 2 \end{cases}$$



$$\lim_{x \rightarrow 0^-} g(x)$$

$$\lim_{x \rightarrow 2^-} g(x)$$

$$\lim_{x \rightarrow 0^+} g(x)$$

$$\lim_{x \rightarrow 2^+} g(x)$$

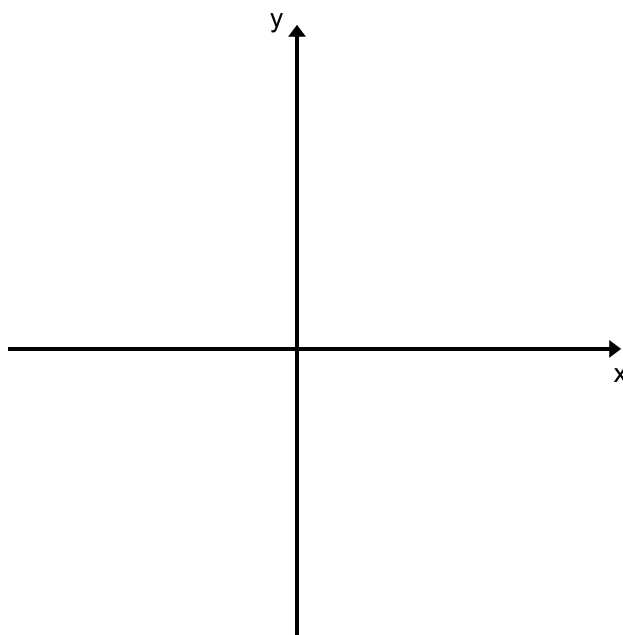
$$\lim_{x \rightarrow 0} g(x)$$

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

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$$f(x) = \begin{cases} 3x+4 & \text{for } x \leq 1 \\ -4x+9 & \text{for } 1 < x \leq 3 \\ 3 & \text{for } x > 3 \end{cases}$$



$$\lim_{x \rightarrow 1^-} f(x)$$

$$\lim_{x \rightarrow 3^-} f(x)$$

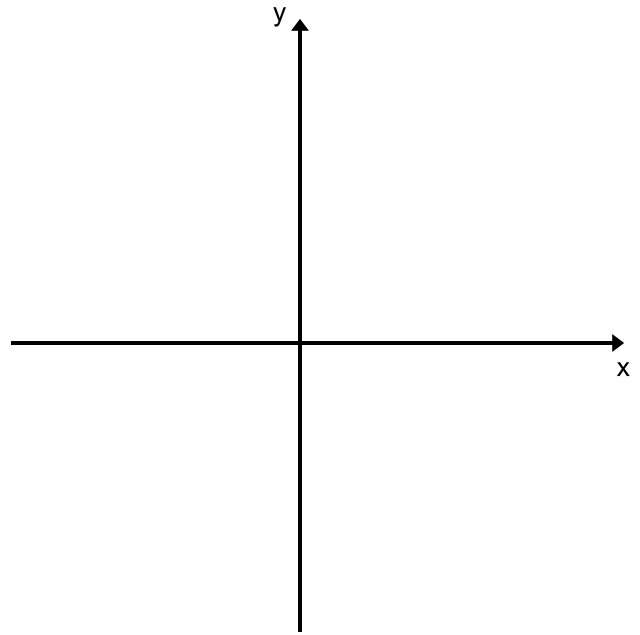
$$\lim_{x \rightarrow 1^+} f(x)$$

$$\lim_{x \rightarrow 3^+} f(x)$$

$$\lim_{x \rightarrow 1} f(x)$$

$$\lim_{x \rightarrow 3} f(x)$$

$$g(x) = \begin{cases} -3x^2 + 4 & \text{for } x < 0 \\ -4x + 8 & \text{for } 0 \leq x < 2 \\ \sqrt{x-2} & \text{for } x \geq 2 \end{cases}$$



$$\lim_{x \rightarrow 0^-} g(x)$$

$$\lim_{x \rightarrow 2^-} g(x)$$

$$\lim_{x \rightarrow 0^+} g(x)$$

$$\lim_{x \rightarrow 2^+} g(x)$$

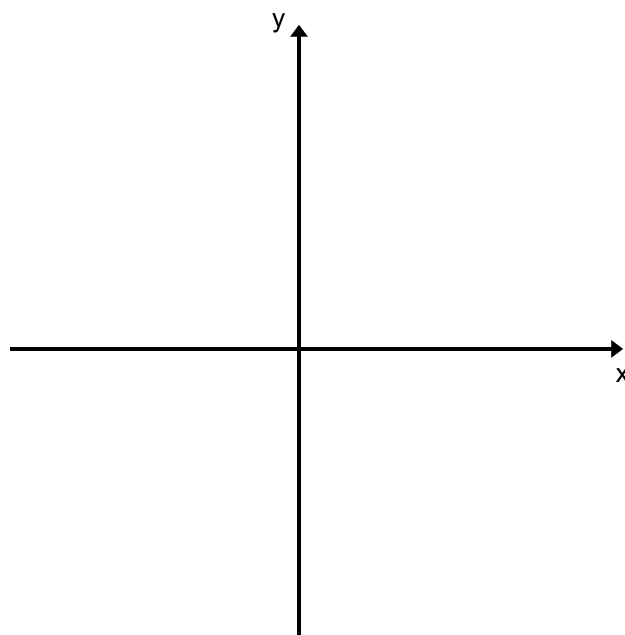
$$\lim_{x \rightarrow 0} g(x)$$

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

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$$f(x) = \begin{cases} 5x+4 & \text{for } x \leq 1 \\ 2x+7 & \text{for } 1 < x \leq 3 \\ 13 & \text{for } x > 3 \end{cases}$$



$$\lim_{x \rightarrow 1^-} f(x)$$

$$\lim_{x \rightarrow 3^-} f(x)$$

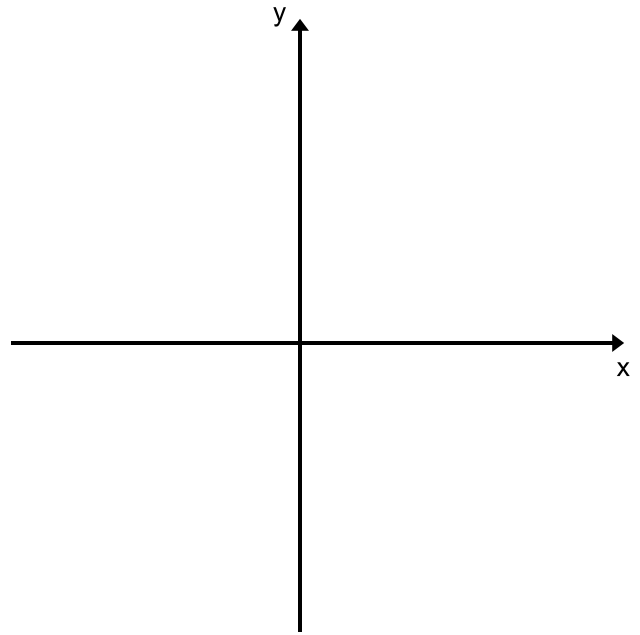
$$\lim_{x \rightarrow 1^+} f(x)$$

$$\lim_{x \rightarrow 3^+} f(x)$$

$$\lim_{x \rightarrow 1} f(x)$$

$$\lim_{x \rightarrow 3} f(x)$$

$$g(x) = \begin{cases} 2x^2 + 4 & \text{for } x < 0 \\ -3x + 8 & \text{for } 0 \leq x < 2 \\ \sqrt{x-2} & \text{for } x \geq 2 \end{cases}$$



$$\lim_{x \rightarrow 0^-} g(x)$$

$$\lim_{x \rightarrow 2^-} g(x)$$

$$\lim_{x \rightarrow 0^+} g(x)$$

$$\lim_{x \rightarrow 2^+} g(x)$$

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

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