

Name : _____

Score : _____

Teacher : _____

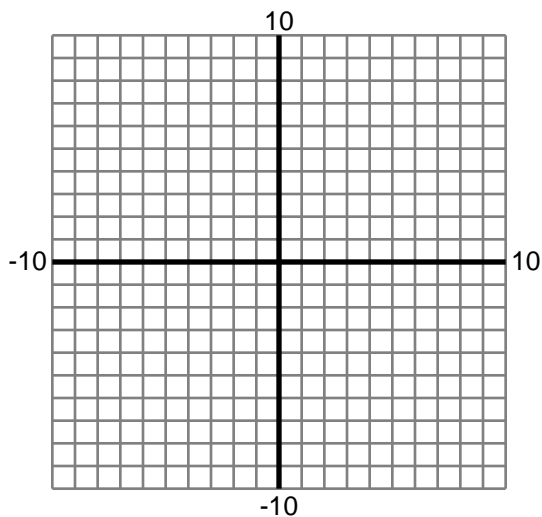
Date : _____

Limits At Discontinuities

Graph the function and evaluate the limit. Round to two decimals if necessary.

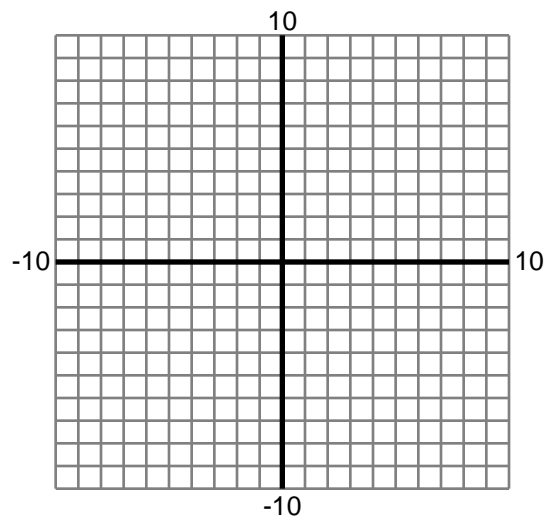
1) $\lim_{x \rightarrow 3^+} g(x) = \underline{\hspace{2cm}}$

$$g(x) = \frac{|x - 3|}{x - 3}$$



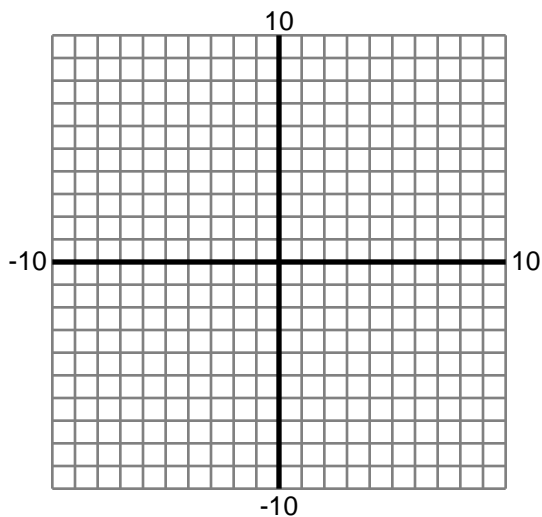
2) $\lim_{x \rightarrow -3^+} p(x) = \underline{\hspace{2cm}}$

$$p(x) = |(x + 1)^2 - 4| - 2$$



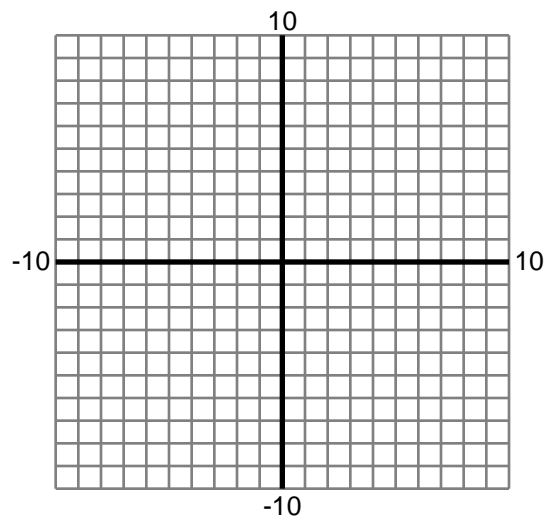
3) $\lim_{x \rightarrow -5^-} h(x) = \underline{\hspace{2cm}}$

$$h(x) = \begin{cases} \frac{x}{6} - 1 & \text{if } x < -5 \\ \frac{1}{5}(x + 6)(x - 4) - 4 & \text{if } x > -5 \end{cases}$$



4) $\lim_{x \rightarrow 1^-} q(x) = \underline{\hspace{2cm}}$

$$q(x) = \begin{cases} x^2 + 6x - 7 & \text{if } x < 1 \\ -(x - 4)^2 + x + 4 & \text{if } x > 1 \end{cases}$$



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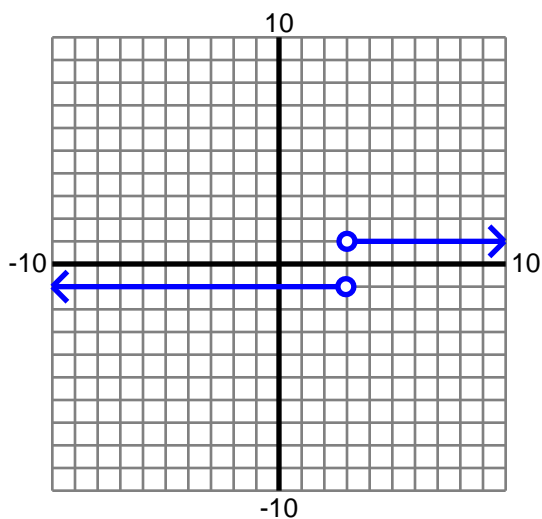
Date : _____

Limits At Discontinuities

Graph the function and evaluate the limit. Round to two decimals if necessary.

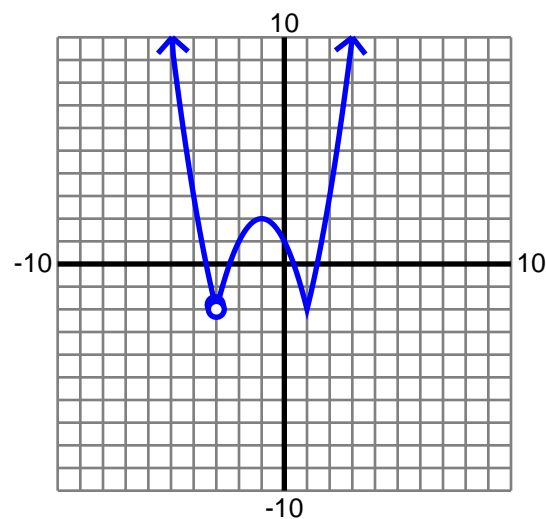
$$1) \lim_{x \rightarrow 3^+} g(x) = \underline{1}$$

$$g(x) = \frac{|x - 3|}{x - 3}$$



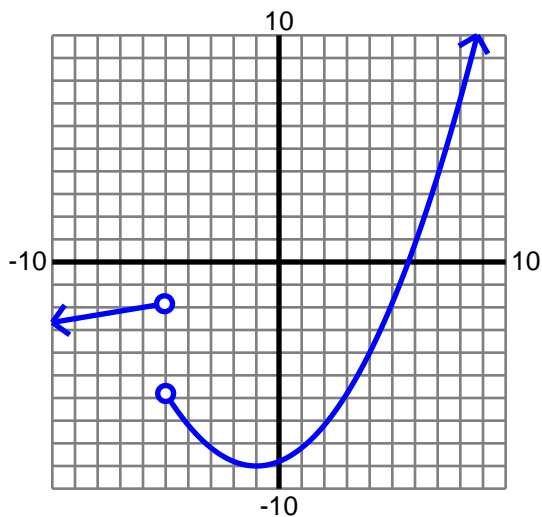
$$2) \lim_{x \rightarrow -3^+} p(x) = \underline{-2}$$

$$p(x) = |(x + 1)^2 - 4| - 2$$



$$3) \lim_{x \rightarrow -5^-} h(x) = \underline{-1.83}$$

$$h(x) = \begin{cases} \frac{x}{6} - 1 & \text{if } x < -5 \\ \frac{1}{5}(x + 6)(x - 4) - 4 & \text{if } x > -5 \end{cases}$$



$$4) \lim_{x \rightarrow 1^-} q(x) = \underline{0}$$

$$q(x) = \begin{cases} x^2 + 6x - 7 & \text{if } x < 1 \\ -(x - 4)^2 + x + 4 & \text{if } x > 1 \end{cases}$$

