Math 19: Quiz 1   Name: _____
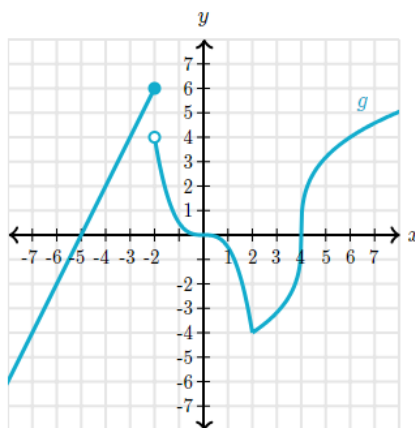
For full credit you must show your work. Partial credit may be given for incorrect solutions if sufficient work is shown.

1. The function $g(x)$ is graphed below.

- $\displaystyle\lim_{x \to -2^-} g(x) =$

- $\displaystyle\lim_{x \to -2^+} g(x) =$

- $\displaystyle\lim_{x \to -2} g(x) =$

- $g(-2) =$

2. Suppose $\lim_{x \to 2} f(x) = 8$. Evaluate the following limit.

$$\lim_{x \to 2} \left(\frac{f(x)}{x} - \frac{x^2 - 4}{x - 2} \right).$$

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