

Quiz 3

Name: _____

$$f(x) = \frac{(x-2)(x+2)}{x-2}.$$

Estimate $\lim_{x \rightarrow 2} f(x)$ numerically.

Determine $\lim_{x \rightarrow 2} f(x)$ algebraically.

(Bonus 5 pts.) Using the idea of a limit, explain the rule that allows you to make each step in your solution to part (b) (write an explanation next to each equal sign).