

# Math 2143 - Brief Calculus with Applications

Quiz #3 - 2008.02.07

Name: \_\_\_\_\_

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Sketch the graph of ONE function which satisfies ALL of the following conditions.

$$\begin{aligned} \lim_{x \rightarrow 2^-} f(x) &= -1 & \lim_{x \rightarrow 2^+} f(x) &= 10 & f(2) &= 5 \\ \lim_{x \rightarrow 1^-} f(x) &= \infty & \lim_{x \rightarrow 0} f(x) &= 1 & f(0) &= -1 \\ \lim_{x \rightarrow 1^+} f(x) &= -\infty \end{aligned}$$