

# Math 2143 - Brief Calculus with Applications

Quiz #2 - 2009.02.10

Solutions

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

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

Graph of a function  $f(x)$  which satisfies the conditions

