

Math 131

Quiz 3 – January 29, 2009

Name \_\_\_\_\_

1. Using the  $\epsilon - \delta$  definition of limit, show that  $\lim_{x \rightarrow a} g(x) = 0 \iff \lim_{x \rightarrow a} |g(x)| = 0$ .

2. Using the  $\epsilon - \delta$  definition of limit, show that  $\lim_{x \rightarrow a} (5x - 5) = 5a - 5$ .