Math 165: Honors Calculus I Name:_____
Quiz 6 *Oct. 12, 1995*

1. Give precise definitions for the following.

   a) $\lim_{x \to p} f(x) = A$.

   b) $f(x)$ is continuous at p.

   c) $f(x)$ has a removable discontinuity at p.

2. State the Basic Limit Theorems.

3. Suppose $f(x)$ is a function with the following property: if $|x-1|<2$ then $|f(x)-3|<4|x-1|^2$. Prove using the definition of limit that $\lim_{x\to 1} f(x)=3$.