Math 165: Honors Calculus I
Name:
Quiz 1 Sept. 8, 1994

1. Prove that for all real numbers $a, b \in,(-a) b=-(a b)$.
2. Define the following:
a) an inductive set.
b) the natural numbers, .
c) $\sum_{k=1}^{n} a_{k}$.
3. Prove $\sum_{k=1}^{n} k^{2}=\frac{n(n+1)(2 n+1)}{6}$ by induction.
4. Find all $x$ such that $|1-3 x|<4$.
