Math 165: Honors Calculus I
Name:
Quiz 1 Aug. 31, 1995

1. a) Define $-a$ for $a \in$.
b) Prove that $a 0=0$ for any $a \in$
c) Prove that $(-1) a=-a$ for any $a \in$.
2. Define the following:
a) an inductive set.
b) the natural numbers, .
c) $\sum_{k=1}^{n} a_{k}$.
3. Prove $\sum_{k=1}^{n} k=\frac{n(n+1)}{2}$ by induction.
