Math 165: Honors Calculus I
Name:
Quiz 5 Oct. 20, 1994

1. Sketch the graph of the function $F(x)=\int_{0}^{x}|t| d t$ for $-2 \leq x \leq 2$.
2. Define the limit of a function, $\lim _{x \rightarrow p} f(x)=A$.
3. Prove using the definition of the limit that $\lim _{x \rightarrow 1} x^{3}=1$. (Mysterious hint: if $|x-1|<1$ then $\left|x^{2}+x+1\right|<7$.)
