# Math 10850, Honors Calculus 1 

Quiz 5, Thursday October 10

## Name:

1. Give the formal definition of a function, and say, in terms of this definition, what are the domain and the range of a function.
2. Let $f(x)=\sqrt{x^{3}-x}$. Find the domain of $f$ - and as you do so, please make clear the process that you are using. Write your final answer using interval notation (by which I mean $(a, b],(c, \infty)$, etc. You may need to express your final answer as a union of intervals, for example $(-3,0] \cup[2,5])$.
