Math 10860, Honors Calculus 2

Quiz 5, Thursday February 20

Name:

1. Give the *definition* of the number e. (Not some properties that e satisfies, but rather the definition that we had in class. If your answer involves any functions that were not discussed in the fall (it doesn't need to), you need to say what those functions are).

2. Let $f(x) = (1-x)^{1/x}$. Does f approach a limit near 0, and if so, what is it?

3. Is $\log_{10} 2$ rational or irrational? (Justify!)