Math 10860, Honors Calculus 2

Quiz 9

Thursday April 9

1. State the precise definition of "sequence $(a_n)_{n=1}^{\infty}$ converges to limit L as $n \to \infty$"

2. Using the definition, show that $(1/\sqrt{n}) \to 0$ as $n \to \infty$.

3. Suppose $(a_n) \to L$ as $n \to \infty$, with $L > 0$. Prove that $(1/a_n) \to 1/L$ as $n \to \infty$.