

Math 3100 Quiz 5

Name

1. (5 points) Evaluate the following limits

(a) $\lim_{n \rightarrow \infty} \sqrt{\frac{n-1}{4n+3}}$

(b) $\lim_{n \rightarrow \infty} n^{1/n}$

2. (5 points) Prove that if $\lim_{n \rightarrow \infty} a_n = -2$, then there exists a natural number N so that $a_n < -1$ for all $n > N$.