

Quiz #6

Please print your name:

Problem 1. Determine the following limits.

(a) $\lim_{n \rightarrow \infty} \frac{2}{n} =$

(b) $\lim_{n \rightarrow \infty} \frac{7n^2 - 8n + 1}{2n^2 + 3} =$

(c) $\lim_{n \rightarrow \infty} \sqrt{\frac{2n}{n+1}} =$

(d) $\lim_{n \rightarrow \infty} \sin\left(\frac{\pi}{2} + \frac{1}{n}\right) =$

Problem 2. Determine the following limit: $\lim_{n \rightarrow \infty} \left(\frac{3}{n}\right)^{1/n}$

(Make sure to show all your work!)