

Quiz #7

Please print your name:

Problem 1. (1+2+2+2 points) Determine the following limits.

(No need to show work!)

(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. (3 points) Determine the following limit: $\lim_{n \rightarrow \infty} \sqrt[n]{n^3}$

(Make sure to show all your work!)