

HW7; due on Monday, Nov 4

11.1: 28, 38, 44, 80, 89 (Hint: Use the Squeeze Theorem). 90 (Hint for (a): Use the Mean Value Theorem), 91

In addition to these, use the ϵ definition of convergence (Definition 2, Sec 11.1) to argue that the following limits exist

(a) $\lim_{n \rightarrow \infty} (\sqrt{n+2} - \sqrt{n}) = 0$

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

Additional problems (not to be collected/graded) for the quiz

From 11.1: 30, 32, 34, 36, 40, 41, 42, 44, 45, 46, 47