

Problem Set 4
Due Friday, May 1.

Real Analysis

Math 131A, Spring Quarter 2015

1. Do problems 9.1 (b), 9.4, 9.9, 9.10, 9.11, 9.15, 10.7, 10.10, 11.1, 11.6, in the textbook.
2. Suppose (s_n) , (t_n) are sequences of real numbers such that for each $\varepsilon > 0$, there is $N \in \mathbb{N}$ such that for all $n > N$ we have $|s_n - t_n| < \varepsilon$. Let $s \in \mathbb{R}$ such that $s_n \rightarrow s$. Prove that also $t_n \rightarrow s$.