Problem Set 4
Due Friday, October 25.

Real Analysis

Math 131A, Fall Quarter 2013

1. Do problems 9.1 (b), 9.4, 9.9, 9.10, 9.11, 9.15 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 $s_n \to s$. Prove that also $t_n \to s$.