Assignment 4
(Due September 25)

Reading: (from Reed) §2.6, 3.1

Problems: §2.1: #6
§2.2: #1b, 2a, 4, 5
§2.4: #2, 3, 9, 13, 14
§2.5: #1, 3, 4

Additional Problems: 1. A real number $d$ is said to be a limit point of a sequence $\{a_n\}$ if for any $\epsilon > 0$ and any $N \in \mathbb{N}$, there exists $n \geq N$ such that $|a_n - d| \leq \epsilon$, or in logical form, $\forall \epsilon > 0)(\forall N \in \mathbb{N})(\exists n)(n \geq N \land |a_n - d| \leq \epsilon)$. Write the logical and then the prose form of the statement: “$d$ is not a limit point of $\{a_n\}$.”