Advanced Calculus Homework # 2 (due 10/7)

**Sec 1.2.** 7, 8, 10
**Sec 1.3.** 1.(f),(g), 3, 5, 7, 8

**Addendum:** Using the definition that $\mathbb{N}$ is the smallest inductive set in $\mathbb{R}$, show that the axiom of Well-Ordering Principle and the axiom of Induction are satisfied. These two postulates are redundant.