

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.