Due: Wednesday, November 14th

- 1. Exercise 5.5.I in the text.
- 2. Read Corollary 5.6.3 and do Exercise 5.6.F in the text.
- 3. Exercise 5.7.H in the text.
- 4. (A problem from the June 1999 Analysis Qualifying Exam.) Let f be a real uniformly continuous function on the bounded set $E \subseteq \mathbb{R}$. Prove that f is bounded on E. Show that the conclusion may be false if boundedness of E is not assumed.