Please answer the questions below and either turn in a paper copy in-person or make a quality scan into a single pdf and submit via email or Blackboard.

1. Finish the proof of Theorem 1.8.4(b), and prove Parts (c) and (d) as well.

2. Prove Theorem 1.8.5(c).

3. Prove Corollary 1.8.6(b).

4. Section 1.8, Exercise 14 (c) and (e).

5. Section 1.8, Exercise 18.

6. Section 2.1, Exercise 2 (d) and (k).