EXERCISES FOR WEEK 01

- 1. Work problem 8 from Cunningham, Exercises 1.2 (p.13), and problem 8 from Exercises 1.5 (p. 26).
- **2.** Work problems 1-3, 7-8, 9a, 11, 12bd from Cunningham, Exercises 1.1 (p.5).
- **3.** Suppose A, B and C are sets such that $A \subset B \subset C \subset A$. Prove that A = B = C.
- **4.** Suppose A, B and C are sets such that A is contained in B and B is contained in C such that either of the two containments is proper. Prove that A is properly contained in C. (There are two cases!)