Due on Friday, February 11, before class. Please use the cover sheet and staple it your homework submission.

Prepare for the next problems by solving Exercises 1,5,7,9 checking your answer in the appendix.

**Problem 1** Section 1.3, Exercise 6, page 47

Prepare for the next problem by solving Exercises 11,13,15 in Section 1.3 and checking your answer in the appendix.

**Problem 2** Section 1.3, Exercise 14, page 47

Prepare for the next problem by solving Exercise 19 in Section 1.3 and checking your answer in the appendix.

**Problem 3** Section 1.3, Exercise 20, page 47

Prepare for the next problem by solving Exercises 23,25,27,29,31 in Section 1.3 and checking your answers in the appendix.

**Problem 4** Section 1.3, Exercise 32, page 48

Prepare for the next problems by solving Exercise 31 and 33 in Section 1.4 and checking your answers in the appendix.

**Problem 5** Section 1.4, Exercise 30, page 60

Solve Exercises 2x+1 for all $x \in \{1, 2, 3, 4, 5\}$ in Section 1.5 and check your answers in the appendix.

**Problem 6** Section 1.5, Exercise 4, page 72

You can improve your performance in this class by carefully reading Chapter 1.3-1.6 and the lecture notes. Do as many drill questions as you can, even though many are a bit tedious. It is important that you master the basics of logic extremely well. Do many odd numbered exercises and check your answers. Whenever you err, make sure that you completely understand your error before moving on to the next question.