Due on Friday, February 4, before class. Please use the cover sheet and staple it your homework submission.

**Problem 1** Section 1.1, exercise 10, page 17.

**Problem 2** Section 1.1, exercise 14, page 17.

**Problem 3** Section 1.1, exercise 34, page 19.

**Problem 4** Section 1.2, exercise 12, page 28.

**Problem 5** Section 1.2, exercise 54, page 29. The definition of the operator $|$ is given before exercise 46.

**Problem 6** Section 1.2, exercise 60, page 30

The most important exercise is to read Chapter 1.1-1.3 and the lecture notes. When you read a definition, make sure that you completely understand and memorize it. Do many odd numbered exercises and check your answers.

**Programming 1** *(Do not turn in)* Implement a truth table generator in Ruby or C++. Solve Section 1.2, exercises 2–4, 10 on page 28 using your program.