CSCI 1323 (Discrete Structures), Spring 2001

Homework 2

Assigned: January 23, 2001.

Due: January 30, 2001, at the start of class.

Credit: 20 points.

1 Problems

1. (4 points) Using letters for the component statements, translate the following statements into symbolic notation:

   (a) Either it is raining or it is not raining.

   (b) If it is raining and the convertible's top is down, the seats will get wet.

   (c) Joe will graduate if and only if he passes all his courses this semester.

   (d) Either Jane will pass all her courses and graduate or she will start her own company.

2. (4 points) Verify distributive property 3a on p. 10 of the textbook *by constructing truth tables.*

3. (6 points) Do problem 23 on p. 31 of the textbook.

4. (6 points) Do problem 32 on p. 32 of the textbook.

5. (0 points) About how long did it take you to do this homework?