Homework 4

Due Date: March 17, 2008   **Total Points:** 100

Problems

1.   (*12* points*)* text, §16.9, exercise 4.

2.   (*20* points*)* text, §17.7, exercise 4.

3.   (*18* points*)* text, §17.7, exercise 6.

4.   (*20* points*)* text, §18.6, exercise 2.

5.   (*30* points*)* text, §19.8, exercise 2; justify the six (not four) properties in item 2 on p. 507.

Extra Credit Problem

6.   (*12* points*)* text, §16.9, exercise 2; the second sentence of the problem should read: "Prove that the structure *IL* = $(S_{IL}, \leq_{IL})$ is a lattice, given the following definitions:"

7.   (*20* points*)* text, §16.9, exercise 3.