Homework 2

Due Date: April 21, 2003 **Points**: 100

Questions

1. (*10 points*) Text, section 1.12, exercise 3
2. (*15 points*) Text, section 1.12, exercise 11
3. (*15 points*) Text, section 2.8, exercise 4
4. (*15 points*) Text, section 3.9, exercise 1
5. (*20 points*) Text, section 3.9, exercise 4 (note the word "prove"; this requires a mathematical proof)
6. (*25 points*) Text, section 3.9, exercise 5 (note the words "prove or give a counterexample"; this requires either a mathematical proof or a counterexample, in which case you must show what you present is a counterexample)

Extra Credit

7. (*20 points*) Text, section 3.9, exercise 3