

## Homework 2

**Due Date:** Thursday, April 21, 2004

**Points:** 100

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Some questions ask you to justify statements made in proofs, or to prove statements. Please make your justifications rigorous rather than justifying what is happening at a high level.

1. (10 points) Text, section 1.12, exercise 12
2. (30 points) Text, section 2.8, exercise 4
3. (30 points) Text, section 3.9, problem 4
4. (30 points) Text, section 3.9, problem 5