

Homework 2

Due Date: April 22, 2004

Points: 100

Questions

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 8
2. (15 points) Text, section 2.8, exercise 6
3. (20 points) Text, section 3.9, exercise 1 (be rigorous here).
4. (25 points) Text, section 3.9, exercise 3 (note the word “prove”; this requires a proof, not an argument)
5. (10 points) Text, section 4.11, exercise 8
6. (20 points) Text, section 5.8, exercise 6 (note the word “prove”; this requires a proof, not an argument)

Extra Credit

7. (20 points) Text, section 3.9, exercise 2
8. (20 points) Text, section 3.9, exercise 6