Math 310 B & C   Introduction to Mathematical Reasoning   Autumn 2005
<div align="center">Assignment #8

Due 11/23/05</div>

Reminders about Portfolio Problems:

- Second draft of Portfolio Problems 2 and 3 is due Monday 11/21 (one draft per group). Bring one copy to class on Monday.

- Read handout #5 about Portfolio Problem 4, and choose a topic as soon as possible. I recommend deciding on a topic no later than Monday 11/21. If you have questions about this assignment, I'll answer them in class on Friday, 11/18.

Reading

- Chapters 15 (again), 16 (again), 17.

Short Answers

For the following problems, give answers only; no proofs or reasons are necessary (even if the book asks for them).

- Pages 170–173, Problems 14.5, 14.8 (just say whether each function is one-to-one).

- Pages 184–189, Problems 15.1, 15.5, 15.6.

Long Answers

For each of the following problems, give a careful proof of every assertion you make.

- Pages 170–173, Problem 14.7.

- Pages 184–189, Problem 15.8, 15.11, 15.16.

For Fun and Practice

These need not be handed in; but if you want to hand them in with your Long Answers, I'll look at them.

- Pages 184–189, Problems 15.9, 15.13.