

## 18.100C. Problem Set 1

**Due date:** February 14 (Tuesday) in lecture or in my office before noon on due date (except for the writing assignment). Late homeworks will be accepted only with a medical note or for some other MIT approved reason. You may work with others, but the final write-up should be entirely your own and based on your own understanding.

Each problem is worth 10 points. All problems are from Chapter 1 in Rudin, pages 22-23.

**Problem 1:** ex. 2

**Problem 2:** ex. 8

**Problem 3:** ex. 9

**Problem 4:** ex. 10

**Problem 5:** ex. 17

**Writing assignment:** ex. 6 page 22 (the construction of exponentials): (a),(b),(c),(d) are due Wednesday, February 15. The assignment should be computer edited. It is preferable to be written in LaTeX, although not yet required. However, starting March 1, all writing assignments must be completed in LaTeX.

The following problems are recommended for additional practice. They should *not* be turned in with the homework and they will not count towards the homework score. Chapter 1: 4, 12, 13.