

## Math 300— Homework Set 4

Due Thursday, March 6

1. Read chapters 3.1, 3.2, 3.3, and 3.4 in the book.
2. In chapter 3: problems 4 (just base 10), 5, 7
3. In chapter 3: problems 22-26
4. In chapter 3: problems 29, 30, 44
5. In chapter 3: problems 69, 100, 102
6. In chapter 3: problem 79
7. (For fun): Solve problem 89 in chapter 3 in the general case: that is, removing  $2, 3, \dots, n$  at a time leaves  $1, 2, 3, \dots, n - 1$ , respectively. This question has apparently been asked during interviews for positions at hedge funds.