

# Readings and Suggested Problems from the Text

## Week 6: March 3 to 10

Always read the upcoming sections before class, and reread them after the lecture.

Please note: starting with Chapter 13, playing cards will be used in probability problems. If you are not familiar with the standard deck of cards, please refer to the page on cards on the course web site.

### for Monday, March 3, and Wednesday, March 5

Sections 13.1 to 13.4 on pages 221 to 232. Carefully read the technical notes on the bottom of page 227. (These four sections are key readings for the probability section of the course.)

Look at problems 1 to 5 in Exercise Set A on pages 225 and 226.

Look at problems 1 to 4 in Exercise Set B on page 227.

Look at problems 1 to 7 in Exercise Set C on pages 229 and 230. Problem 7 is a key problem.

Look at problems 3, and 5 through 8 in Exercise Set D on pages 232 and 233. (Problems 5 through 8 are somewhat challenging.)

Look at Review Problems 1, 6, 8, 9, and 10 on pages 234 to 236. (Problems 6, 8, and 9 are the important ones.)

### for Friday, March 7, and Monday, March 10

Sections 14.1 to 14.4 on pages 237 to 250. Example 6 on pages 244 and 245 is a neat summary. Note that the verbal procedure in Section 14.4 is rather neatly summarized in the box on page 250. Only a quick reading of 14.5 on page 252 is needed.

Look at problems 1 and 3–6 in Exercise Set B on pages 242 and 243. The key problem is problem 4.

Look at problems 1 to 5 in Exercise Set C on pages 246 to 247.

Look at problems 1 to 5 and 7 in Exercise Set D on pages 250 and 251. Problems 3 and 4 are the key problems.

Look at Review Problems 1, 3, 7, 8, and 11 on pages 252 and 253. (Problems 3, 7, 8, and 11 are all critically important problems.)

*Extra Problem:* The unconditional probability of event A is  $1/2$ . The unconditional probability of event B is  $1/3$ .

Find the chance that at least one of them happens,

1. if A and B are mutually exclusive.
2. if A and B are independent.