Problem Set 1
CPSC 689 Randomized Algorithms
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The assignment is due next Thursday, before class.

Solve

1. Exercise 2.5 in the lecture notes.

2. Exercise 2.6 in the lecture notes.

3. Exercise 1.11 in the textbook, part (a) only. Note that the formula should read

$$\sum_{k=0}^{\lfloor n/2 \rfloor} \binom{n}{2k} p^{2k} (1-p)^{n-2k}.$$

4. Exercise 1.13 in the textbook.

5. Exercise 1.22 in the textbook.

Read Chapter 1 in the textbook, and chapters 1 and 2 in the lecture notes.

Typeset your solution in LATEX or write *very* neatly!