

## Homework 3

Math 262

Write your solutions to the following problems and turn them in to the homework mailbox (RMS level 3, near the fireplace) by 4:00pm on Friday, September 20.

### Book Problems

- Section 1.3 #49 (page 35)
- Section 1.4 #51, 54, 59, 60, 71 (pages 46–52)

### Additional Problem

Renata flies frequently and likes to upgrade her seat to first class. She has determined that if she checks in for her flight at least 6 hours early, the probability that she will get the upgrade is 0.8; otherwise the probability of getting the upgrade is 0.3. With her busy schedule, Renata checks in at least 6 hours early only 40% of the time. What is the probability that Renata will get a first class upgrade on a randomly selected flight?