Solve the following exercises:

- Exercise 3 of Chapter 13, after modifying the question as follows (15 points):
  1. In part (a), replace the last sentence “Also, give a formula ...” with: Also, give a formula (in terms of $d$, the number of conflicts per process) for the probability that a given process is in $S$.
  2. In part (b), replace the last two sentences (“In terms of ... this optimal value.”) with: Give a value for $p$ (in terms of $d$) so that the probability that a given process is in $S$ is as large as possible.

- Exercise 9 of Chapter 13 (15 points)
- Exercise 3 of Chapter 6 (15 points)
- Exercise 4 of Chapter 6 (15 points)

The homework is due Tuesday, Nov 9, in class.