

## 18.01A Problem Set 4B (for study only)

*This problem set has material on probability to be presented in the last four 18.01A lectures. It is not for handing in, but the material will be included in the two-hour final exam, so the exercises are solved in the Notes. In addition, practice material for the final Thursday evening (with solutions) will be posted over the weekend.*

**Lecture 16.** Thurs. Oct. 15 Infinite discrete random variables; the Poisson RV, standard deviation

Read: Notes P, section 1.3, 1.4, 3.1 (through Example 3.1) Practice: 8A-4ab,6,7,8  
(Some solutions to Exercise Section 8 are right after Exercise section 8E.)

**Lecture 17.** Fri. Oct. 16 Continuous random variables; the Exponential RV

Read: Notes P, sections 2, 3 (p. 10) Practice: 8B-2,3,5 8C-1b

**Lecture 18.** Tues. Oct. 20 The Normal random variable; applications.

Read: Notes P, section 4. Practice: 8D-1bd,2,3

**Lecture 19.** Thurs. Oct. 22 Continuation and Review. *No lecture Friday*

**Final Exam Thurs. Oct.22 7:30-9:30 PM Walker 3rd floor**

The final exam will cover the entire half-semester. No books, notes, or calculators. It will be graded on Friday and hopefully grades posted for 18.01A by the end of the day. Students who did not pass 18.01A will be notified by e-mail, with instructions as to how to get credit for 18.01 without having to take it in the spring. The final exam will not have a makeup.

The course will continue with 18.02A the following Monday in recitation. You stay in the same recitation, but the lecturer will be John Bush. 18.01A (or AP 18.01) is a prerequisite for 18.02A. If you registered for 18.01A/.02A in Sept. and pass 18.01A, you will be automatically registered for 18.02A and need not re-register.