

**18.01 SPRING 2005
PROBLEM SET 8
DUE TUESDAY, APRIL 12**

Reminder: Midterm 2 is Friday the 8th! The material of this Problem Set will not appear on the exam.

The Usual Instructions

- Write up your solutions neatly, preferably with all pages stapled. You need not show every arithmetic calculation, but must always show enough work to demonstrate the process by which the answer is reached. Without this, the grader can't be sure that you didn't just copy the answers from someone else, and there's no way to give partial credit.
- You're free to work together in groups, but you must write up the solutions independently. Plagiarism is easy to detect.
- You can either hand in your solutions in class by the due date, or slip them through the slot in my office door (2-172) by 11:59pm that night.

Reading

Simmons 10.6–10.8.

Ungraded problems

Do the following exercises for practice—preferably after the corresponding lecture—but *do not hand them in*. The solutions are available to you, so you should check your work. Starred problems are especially recommended.

Each problem is from the Notes unless stated otherwise:

- *Tu 4/5/05*: 5E-2 to 5E-6, 5E-9, 5E-10h*
- *Th 4/7/05*: 5F-1 to 5F-5

Graded problems [40 pts total]

Note: for some of these you can find the answer in the back of Simmons—you just need to come up with the right method and show your work.

From Simmons:

- 10.6 #7, 13, 15 [5 pts each]
- 10.7 #2, 4, 10, 16, 18 [4 pts each], 22 part (a) only (derive the reduction formula) [5 pts]

No Part B problems this week.