

Math 240 Spring 2008
Homework 2

Due: Friday February 1 in the mailbox of your TA by 4pm.

Core Problems: Section 8.2, No. 19
 Section 8.3, No. 1, 5, 9, 13, 17
 Section 8.4, No. 3, 7, 21
 Section 8.5, No. 4, 7, 12, 15, 31

Additional Problems: Section 8.2, No. 20
 Section 8.3, No. 8, 10, 12, 14, 15, 16
 Section 8.4, No. 12, 18, 26
 Section 8.5, No. 16, 23, 28, 32

To be covered next week: finish 8.5, 8.6, (skip 8.7), 8.8

Instructions/Comments:

Core problems do not need to be handed in. Additional problems need to be written up legibly, with your name, your TA's name and your recitation number or time on the first page. The homework should be placed in your TA's mailbox in DRL 4W2 by 4pm each Friday. **NO LATE HOMEWORK'S WILL BE ACCEPTED.**

The homework will be checked for completeness, but not graded. Completeness will count towards your grade though. Questions on the Quiz are similar to homework problems due that Friday. So come well prepared.

If you have problems following in class, I suggest you start looking at the material I will cover ahead of time and maybe even do a core problem from that section. This will make it much easier to follow, or at least you will know what you had trouble understanding.

MAPLE SUGGESTION: Learn how to solve a linear system of equations and determine the rank of a matrix (study the commands *multiply*, *gaussjord*, *LinearSolve* in the *with(LinearAlgebra)* package) . Look at Demo 1 on the maple web page

<http://www.math.upenn.edu/ugrad/calc/maple/maple240w4.html>

for a review and Demo 2 for the new linear algebra commands that are useful. The best way to learn how a new command works is to ask in Maple "*?command;*" which will explain it and give examples.

Then do the even numbered homework problems above to check your homework.