

# First Homework Assignment for Math 232 (D200)

**Due: Friday, September 18th.**

All section references are to the Lay text.

Problems to hand in:

Section 1.1 problems 4, 14, 18, 30

Section 1.2 problems 2, 14, 18, 26

Section 1.3 problem 4

Row reduce the following augmented matrix to reduced echelon form. Circle the pivot positions in the final matrix and list the pivot columns. What system of equations does the initial matrix represent?

$$\left[ \begin{array}{cccc|c} -1 & 1 & -1 & 3 & 0 \\ 3 & 1 & -1 & -1 & 0 \\ 2 & -1 & -2 & -1 & 0 \end{array} \right]$$

Some other problems you should try:

Many sections have one or more “Practice Problems” before the exercises, with solutions following the exercise. You should try these.

Also, most sections of the book have a nice two-question true-false section. These questions are an excellent way of making sure that you understand the reading and reviewing for the tests. Get started with Section 1.1 problems 23 and 24 and Section 1.2 problems 21 and 22.

Make sure you can do row reduction and solve systems of equations effectively. If you need some practice, try section 1.2, problems 7 through 14.

Reading for this week:

If you haven't already, please read *A Note to Students*.

For Friday, September 11th, Sections 1.1 and 1.2.

For Wednesday, September 16th, Section 1.3.

For Friday, September 18th, Sections 1.4 and 1.5.