Assignment #7

Read pp. 304-307 and start Chapter 6. (Skip §5.5.)

Due in lecture on **Wednesday, May 20**:

Problems to do but not hand in:

§5.4, p. 308, Exs. 6, 8, 17;

§6.1, p. 328, Exs. 1, 6;

Problem Q-1;

Problem R-1.

Problems to hand in:

§5.4, p. 308, Exs. 9, 10, 16;

§6.1, p. 328, Exs. 2, 4.

Exs. Q-2, Q-3, Q-4.

Problem R-1. Suppose you have a 3×4 matrix A and you do the elementary row operation of subtracting 2 times the first row of A from the third row of A, getting an answer B. Actually, $B = EA$ for a certain "elementary" matrix E. Find E (with numerical entries). Give an example of A and B.

Office hour Friday, May 15 will be 2:00-3:00.

Notes on Lab #1

1. As mentioned in class, the complete email address for submissions is `tst115a1@pic.ucla.edu` . If you run into problems or have questions, though, just send email to my regular address: `baker@math.ucla.edu`

2. The second part of the lab is simply to get a visual feel for the idea of an eigenvector, which is all that can be expected before you have had lectures on the concept. As the lab handout says, an eigenvector is a vector $\mathbf{v}$ so that $\mathbf{v}$ and $A\mathbf{v}$ point along the same line. (The vector $\mathbf{v}$ should also be nonzero so it has a direction.) How successful you are at finding them will depend on what the transformation is.