Problem Set 2

Math 20

Due February 15, 2006

Reading

Read Sections 1.3.–1.5 in Kolman and Hill. In general, read any section of the book covered in class.

- For Section 1.3, make sure you read the section on linear systems, although we won't be talking about it until later. You might find the information on summation notation useful as well. You may ignore the section on partition matrices or anything about bit matrices.
- For Section 1.4, read everything except the section on bit matrices
- Read all of Section 1.5.

Problems

This seems like a lot but many of the exercises are very straightforward computations. You will need to practice multiplying matrices to be able to do it with aplomb.

- Section 1.3: 2, 4, 8, 32, 34, T.1, T.7 (The "T" exercises are "theoretical." We intend to keep them to a minimum but you should learn a little bit about dealing with abstraction.)
- Section 1.4: 8, 14, T.4, T.10
- Section 1.5: 2, 4, 6, 8, 16, T.1, T.2

Division

Since we have two graders we will divide the problem set up in to two parts. That means two staples!

- Part I: Section 1.3 exercises, 1.4.8 and 1.4.T4.
- Part II: Section 1.5 exercise, 1.4.14 and 1.4.T10.

Homework Rubric

Each problem will usually be worth 3 points. Multi-part problems will have each part graded on the same scale. We are grading each three-point part according to the following rubric:

Points	Description of Work
3	Work is completely accurate and essentially perfect. Work is thoroughly developed, neat, and easy to read. Complete sentences are used.
2	Work is good, but incompletely developed, hard to read, unexplained, or jumbled. Answers which are not explained, even if correct, will generally receive 2 points. Work contains "right idea" but is flawed.
1	Work is sketchy. There is some correct work, but most of work is incorrect.
0	Work minimal or non-existent. Solution is completely incorrect.