Notes on Exam 1, Math 544, Fall 2005

1. Exam 1 is on Tuesday, September 6. The exam covers 1.1–1.3, 1.5, 1.6 and Linear Indpendence in Section 1.7. Section 1.7 contains two concepts !a "Linearly Independent Vectors" and "Nonsingular Matrices". The topic "Nonsingular matrices" is not covered on Exam 1. In particular, problems 16, 17, 52, and 53 in section 1.7 are not covered on Exam 1. All of the other assigned problems in Section 1.7 are covered on Exam 1.

2. Be able to define "linearly independent".

3. The material on the old exams which is covered on your exam 1:
   (a) Exam 1's:
   97: 1, 2, 3, 4, 5, 7,10.
   98: 1, 2, 3, 4, 5, 6, 7, 8, 9.
   01: 1, 2, 3, 4, 5, 6, 7.
   02: 1, 2, 3, 4, 6, 10.
   spring 03: 1, 2, 3, 5, 7, 8, 10.
   summer 03: 1, 2, 3, 4, 5, 6, 7, 8, 9.
   04: 1, 2, 3, 4, 5.
   summer 05: all
   (b) Exam 2's:
   97: 1.
   98: 5, 6, 10.
   01: 2, 7, 8, 9, 10.
   02: 1, 7.
   spring 03: 1, 4a, 4b, 4c, 6.
   summer 03: 1, 4, 5, 7, 8, 9.
   04: 1, 2, 3, 4, 6.
   summer 05: 1, 2, 6, 7.
   (c) Exam 3's:
   01: 4, 10.
   02: 6.
   summer 03: 1.
   (d) Final Exams:
   97: 9 (The matrices A and b are given before problem 6.), 14.
   98: 4, 5, 6.
   01: 4, 10e, 10f.
   02: 3, 8 (Solve $Ax = b$ and then stop.), 15.
   spring 03: 16, 17, 19.
   summer 03: 11, 16, 17abc.
   04: 1abc.
   summer 05: 1ab.