

# M300 Linear Algebra

## Homework: Weeks 6-10

October, 2004

Do all of the homework below, but turn in only the problems marked with (\*)

DATE	Homework
10/7 Thu	Sect 3.1 1,3,11,12,13,19,21,22,31,39,41*,43*,44,46* For 43-46, Use Matlab. To generate a random $n \times n$ matrix use <b>A=rand(n,n)</b> (uses uniformly distributed numbers in $[0, 1]$ or <b>A=randn(n,n)</b> (uses normally distributed random numbers)  ALSO: See the Nonlinear Functions Handout, and turn in the solution to the last question.
10/8 Fri	Sect 3.2 2,3,8,12*,15,19,22,26*,32*,34,36
10/12	No Classes
10/14 Thu	Sect 4.1: 3,5,7,8*,9,12,14,16,20,21,22*,26*,32*,37* For 37, use either Matlab or Maple.
10/15 Fri	Sect 4.2: 4,7,12,16*,18*,23,26*,28*,31,32*,36*
10/19 Tue	Sect 4.3: 3,5,7,10,11,14,18*,22*,23,24*,31,32*,37* Use Matlab for problems 18, 37
10/21 Thu	Sect 4.4: 3,5,7,9,11,14*,16*,17,32* Mid-Semester Homework 4 Due: Sections 3.1-4.2, and Handout
10/22 Fri	Sect 4.5: 3,5,7,9,12,14*,20*,22*,27,30*,32*
10/26 Tue	Sect 4.6: 2, 6-16 even,20,23,25,26,27,28, 31, 35 Use Matlab for Problem 35
10/28 Thu	Sect 4.7: 3,7,9,12,16,18 Homework 5 Due: Sections 4.3-4.5
10/29 Fri	Sect 5.1: 3,5,8,15,17,31,27,29,30
11/2 Tue	Sect 5.2: 3,5,7,9,11,15,18,20,21,24
11/4 Thu	Sect 5.3: 2,3,5,7,9,11,21,23,25,27 No Homework Due
11/5 Fri	Review
11/9 Tue	No Class, Evening Exam

Sections in parenthesis may be skipped if necessary to stay on the general schedule.