MATH 544 (Section 001) University of South Carolina
D. Meade Fall 1996

Homework Problems for Chapter 1
Matrices and Systems of Linear Equations

Section	Page	Problems
1.1	8	# 1, 2, 5, 6, 8, 13, 16*, 25, 28, 31, 34, 38, 40, 43*, 48
1.2	19	# 1, 2, 4, 10, 12*, 19, 22, 34, 35*, 39, 44
1.3	35	# 14, 17, 20, 26*, 30, 31, 33, 36, 41*, 44, 47
1.4	43	# 2, 7, 10*, 12, 13, 15, 20, 21*, 24
1.6	62	# 5, 8, 11, 16, 21, 34, 40, 42, 45*, 49, 50*, 51, 54, 57
1.7	71	# 10, 11, 17, 20, 22, 26*, 33, 34, 35, 37*, 41, 43, 45, 46, 50
1.8	81	# 4, 5, 9–12, 16, 17, 19, 20, 23, 30, 31*, 42, 46*, 48
1.10	103	# 9, 12, 16, 19, 22, 23, 25, 28, 30, 35, 38*, 40, 44, 45*
1.11	112	# 3, 8, 12, 16, 18*, 20, 22, 23, 29*
Review	114	Supplemental Computational Exercises # 2, 3, 4, 6, 8, 9, 10, 11, 12, 14–18
Review	115	Supplemental Conceptual Exercises # 1, 2, 3, 5, 7, 8, 10, 11, 12, 13, 14

Notes

- Problems marked with an asterisk (*) will be collected and graded. In general, problems will be due the day following the lecture in which the section was discussed.
- These problems have been selected as the minimum amount of work that you should be doing for this course. Some problems will be straightforward computations; some will require the construction of a logical argument using the terminology and concepts discussed in class; some problems will require you to expand your knowledge (with given information) and apply this to a new setting.
- If you need more practice, there are many other problems in the text that are similar to the ones I have assigned.
- There are two sections of review problems at the end of each chapter. None of these problems will be collected for grading. These problems should be a good test of your understanding of the main points in the chapter. I suggest solving these problems as one part of your preparation for an exam.
- Be sure you know how to do all of these problems. Do not hesitate to ask questions – in class, by e-mail, or during office hours.