

Math 253 – Linear Algebra

Fall 2007

Standard Problems

You should look at and work on *all* of the homework problems, however, only the underlined ones will be graded and commented on. The homework is meant to deepen your understanding of the course material. If you feel that you understand a non-underlined problem already, feel free to move on to the next one. By contrast, if you are stuck on any problem, even one I have not assigned, please ask about it during my office hours. On all problems, you are encouraged to use technology when you feel it is appropriate.

Standard Problems #1 due Monday, September 10:

Section 1.1: 11, 12, 23, 24, 27, 28

Section 1.2: 11, 12, 15, 16, 19, 20 21–24, 29, 30, 31

Section 1.3: 3, 7, 8, 9, 11, 15, 19, 20, 21, 22, 25, 26, 32

Section 1.4: 21, 22, 23, 24, 29–33

Standard Problems #2 due Friday, September 21:

Section 1.5: 23, 24, 27, 29–32, 37, 38, 39, 40

Section 1.6: 3, 4, 7

Section 1.7: 2, 3, 15, 21, 22, 29, 33–38

Section 1.8: 7, 8, 17, 18, 19, 20, 22, 35, 36

Section 1.9: 1, 11, 12, 13, 17, 18

Standard Problems #3 due Wednesday, October 3:

Section 1.8: 25, 28, 29, 30

Section 1.9: 23, 24, 31, 32, 34

Section 2.1: 1, 5, 10, 12, 15, 16, 19

Section 2.2: 8, 9, 10, 13, 15, 16, 31, 32

Section 2.3: 11, 12, 13, 14, 15, 20, 23, 27, 28, 35, 36, 37, 38

Standard Problems #4 due Wednesday, October 17:

Section 2.5: 9, 10, 19, 20, 24, 25, 26

Section 2.6: 5, 7, 8

Section 2.7: 3, 4, 5, 6, 7, 8, 10, 11

Section 2.8: 1, 2, 3, 4, 19, 20, 21, 22, 23, 24, 27, 28, 29, 30, 36

Section 2.9: 13, 14

(Spooky) Standard Problems #5 due Wednesday, October 31:

Section 4.1: 5, 6, 9, 11, 19, 21

Section 4.2: 29, 33, 34

Section 4.3: 21, 22, 26, 27, 29, 30, 32, 33, 34

Section 4.4: 5, 6, 13, 14, 15, 16, 18, 27, 32

Section 4.5: 3, 9, 19, 20, 21, 29, 30

Section 4.6: 9, 10, 17, 18, 19, 20, 27, 30

Standard Problems #6 due Monday, November 12:

Section 3.1: 1, 2, 15, 16, 39, 40 (do these problems by hand)

Section 3.2: 27, 28, 29, 30, 32, 33

Section 3.3: 21, 29, 30, 31

Section 4.7: 5, 6, 7, 8, 11, 12, 13

Section 4.9: 3, 4, 13, 14, 17, 18, 19, 20

Section 5.1: 5, 6, 19, 20, 21, 22, 23, 24, 25, 31, 32

Standard Problems #7 due Friday, November 30:

Section 5.2: 19, 21, 22, 24

Section 5.3: 5, 9, 10, 11, 21, 22, 23, 24, 27

Section 5.4: 1, 2, 5, 6, 19, 22, 23

Section 5.5: 1, 2, 22, 25

Section 5.6: 5, 6, 9, 11, 12

Section 5.7: 9, 10

Section 6.1: 1, 9, 13, 15, 19, 20, 24, 25, 30, 31

Section 6.2: 9, 10, 23, 24, 26, 29, 30, 32, 33, 34

Section 6.3: 23, 24