Math 362 Linear Algebra – Fall 2017
Tentative Homework Problems
Linear Algebra and its applicatons by David C. Lay, 4th edition

Section 1.1, p. 10: #2, 3, 6, 9, 13, 16, 17, 19, 24, 28, 31
Section 1.2, p. 21: #1, 3, 7, 13 // 16, 18, 19, 21, 23, 26, 27
Section 1.3, p. 32: #1, 3, 7[Don't answer "Is every vector…" question], 10, 11, 13, 23(a-d)
Section 1.4, p. 40: 1, 4, 5, 8, 9, 11, 12
Section 1.3, p. 32: #7[Answer "Is every vector…" question], 15, 18, 21, 23(e), 24, 25, 27(a,b), 29
Section 1.4, p. 40: #[1(b), 4(b)], 13, 15, 17-20, 21, 23, 26, 32
Section 1.5, p. 47: #1, 4, 5, 9, 12, 13, 15, 17, 24, 25(b), 26, 33
Section 1.6, p. 54: #7, 9, 11, 13, 15, 3, 5
Section 1.7, p. 60: #1, 6, 9, 11, 31, 34, 36, 37 // 15-17, 19, 21, 25, 27, 29
Section 1.10, p. 86: [tbd]
Section 2.1, p. 100: #2, 3, 5, 8, 9, 10, 11, 12, 16(a-b), 19, 21, 22, 29, 30 // 16(c-e), 27, 28, 33, 34
Section 2.2, p. 109: #1, 4, 5, 7, 11, 13, 17, 21, 25, 26 // 9, 29, 32, 33[Hint in back of book], 37, 39[M]
Section 2.3, p. 115: #1, 4, 7, 11, 14, 17, 20, 22, 27, [33, 34, 38, 39 Linear Transformations]
Section 2.7, p. 144: [tbd]
Section 3.1, p. 167: #1-22(every 3rd, e.g. 1, 4, …), 25, 31, 33, 36, 37, 38, 39
Section 3.2, p. 175: #2, 9, 13, 16, 19, 21, 27, 31, 32, 33, 37, 40, 45[M]
Section 3.3, p. 185: #2, 5, 7, 13, 16, [19, 24, 25, 27, 28 Linear Transformations]
Section 4.1, p. 195: #1, 3, 5, 7, 8, 19, 21, 25, 27, 29 // 9, 11, 13, 16, 17, 23, 31, 32, 35[M] //
Section 4.2, p. 205: #1, 3, 6, 7, 9, 12, 15, 17,18, 25(a-d, f), [25(e), 31]
Section 4.3, p. 213: #1, 5, 7, 8, 9, 14, 19, 21, 23, 27, 34, 37
Section 4.4, p. 223: [tbd – optional]
Section 4.5, p. 229: #2, 5, 11, 14, 15, 20
Section 4.6, p. 236: #1, 4, 7, 8, 9, 13, 16, 18(a, c)
Section 4.7, p. 242: [tbd – optional]

This is merely a rough and tentative guide for the problems that will be assigned in each section of the book – *it is subject (and likely) to change*. It does not include and worksheet assignments. **Always refer to the assignments updated daily on the course website http://crawford.elmhurst.edu**

Section 4.8, p. 251: [tbd – optional]
Section 4.9, p. 260: [tbd – optional]
Section 5.1, p. 271: #1, 4, 7, 11, 15, 16, 17, 23, 24
Section 5.2, p. 279: #3, 8, 9, 13, 20
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Section 5.5, p. 300: [tbd – optional]
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Section 6.1, p. 336: #2, 5, 8, 11, 12, 14, 15, 17, 19(a,b), 21, 24, 25, 27
Section 6.2, p. 344: #2, 5, 7, 10, 17, 19, 21, 26 // 23(a-d), 25, 27, 28, 29
Section 6.1, p. 336: #29, 30, 31
Section 6.2, p. 344: #11-16(all)
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Section 6.4, p. 358: #1, 3, 6, 7, 9, 12, 13, 16, 17, 19, [22 Linear Transformation]
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Section 6.5, p. 366: #1, 3, 5, 6, 7, 9(a), 12(a), 13, 14 // 9(b), 12(b), 15, 16, 17, 19, 21, 22
Section 7.1, p. 399: [tbd]
Section 7.4, p. 423: [tbd]
Section 1.8, p. 68: #1, 2, 3, 6, 9, 11, 13, 15, 16, 17, 21, 23, 24, 25, 27, 31, 33 [See above for more Linear Transformation Problems]
Section 1.9, p. 78: #1, 2, 17, 19, 25, 27, 22, 23(d,e), 24(a,d), 36, 33, 34, 35
Section 5.4, p. 293: [tbd]
Other Sections: [tbd]

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