

Homework #	Homework Problems Each week some of these problems will be chosen at to be graded. Problems indicated by an "(r)" are <i>recommended</i> problems; they will not be graded, but are highly recommended practice problems when studying for exams.
Homework 1 (due April 10 th 5pm)	Sec. 8.1: 4, 6, 8(r), 14, 16(r), 20, 22, 24(r), 26(r), 28(r), 30, 32, 34(r), 36, 40, 42(r), 44, 46, 48, 50(r), 52(r), 54, 56(r), 58(r), 60, 62, 64(r), 66, 70(r), 72(r), 79. Sec. 8.2: 2, 4, 6(r), 8, 13, 14 Sec. 8.3: 2, 4, 6, 8(r), 10, 16, 18(r), 24, 26(r)
Homework 2 (due April 17 th 5pm)	Sec. 8.3: 30, 32(r), 34(r). Sec. 8.4: 2, 4, 6, 8, 10, 12(r), 16, 20(r), 22, 24, 26, 28(r), 30(r). Sec. 1.1: 8, 9, 12, 14, 18, 22(r), 24, 26(r), 28(r), 34, 42(r), 54, 56, 58-65(r) (all good tests of knowledge!), 64, 66(r), 68, 69, 70, 71(check the help files for the commands 'meshgrid' and 'plot3'. Also look up 'colormap' or 'patch' to be able to get different colours for different surfaces). Sec. 1.2: 2, 4(r), 6, 8, 10, 12, 15, 21, 23, 26, 30(r), 32, 34, 40, 42, 46,48(r), 50, 52, 54, 60(r), 69, 71.
Homework 3 (due April 24 th 5pm)	Sec. 1.3: 2, 5(you can use a calculator for the more difficult calculations), 11, 13, 22, 26, 30, 35, 36. Sec. 2.1: 2, 6, 8, 14, 16, 18, 22, 31, 32, 34(r), 38, 40(r), 42, 52, 60 (r)(read problem 59 first), 66(r), 70(r), 72, 80, 82(r), 86, 88(r). Sec. 2.2: 2, 3, 10, 12(r), 16, 20(r), 24, 27(r), 32, 72(r), 75, 81(r), 83 (make sure you type the command 'format long' before you execute the instructions for this problem, check the help file about the keyword 'function', and also check the help files on the command 'input').
Homework 4 (due May 1 st 5pm)	Sec. 2.2: 46, 48, 50, 52(r), 54(r), 56, 66(r), 68 Sec. 2.3: 8(r), 12(r), 14, 18, 22, 27(r). Sec. 2.4: 2, 8, 15, 17(r), 24(you can use matlab for the arithmetic of part c), 30 (r), 34(you can use MATLAB for the arithmetic)(r), 42, 46(r), 52(r), 56. Sec. 3.1: 2, 4, 6(r), 8, 12, 14, 16(r)
Homework 5 (due May 8 th 5pm)	Sec. 3.1: 24, 26, 28, 32, 36, 40(r), 42, 46(r), 48(r), 50, 52, 56(r), 61(r), 62, 64, 70. Sec. 3.2: 2, 4, 12(r), 18, 20, 24, 26, 30(r), 32, 34(r), 36
Homework 6 (due May 15 th 5pm)	Sec. 3.2: 46, 52(r), 58(r), 60(r), 64, 68, 72(r), 74. Sec. 3.3: 2, 6, 14(r), 16, 18(r), 20, 24, 26, 28, 36, 38(r), 44, 50, 54. Sec. 3.4: 2, 4, 6, 8, 10, 12(r), 14(r), 15(r), 18(r), 20, 22(r), 24, 26(r), 28, 30(r), 32(r), 34(r), 41(r), 44(r), 45. Sec. 8.5: 2, 6(r), 8, 10
Homework 7 (due May 22 th 5pm)	Sec. 5.1: 2, 4, 6, 8, 14, 20, 22(r), 23(r), 24, 28, 30, 34(r), 36, 44, 52(check results for probs 6 and 30). Sec. 5.2: 6(r), 8, 11(r), 14, 22(r), 30, 42, 46, 50(r), 54, 56(r), 58(r), 60(r), 62, 64, 66, 68(r). Sec. 8.5: 14, 16, 18(r), 26(r), 30, 44, 45(check problem 8). Sec. 4.1: 2, 8, 12(r), 16, 18(r), 20, 24, 25, 35, 36, 38, 40(r), 41, 45(r), 48(r), 50(r), 52, 54(r), 56(r), 62, 63(r), 64(r), 67, 72(calculate the norm of the given vector), 75, 77(check results of problems 16 and 67).
Homework 8 (due May 29 nd 5pm)	Sec. 4.2: 2, 3, 4, 6, 8, 10(r), 14(r), 18, 21(r), 22(r), 24(r), 26(r), 27(r), 32, 34(r), 36(r). Sec. 4.3: 2(r), 4, 5(r), 6, 8, 10, 12, 14, 16, 19(r), 20, 21(r), 22, 24, 26(r), 28,30(r), 31. Sec. 4.4: 6, 8, 19 Sec. 8.5: 20, 42.
Homework 9 (due June 5 th 5pm)	Sec. 6.1: 2, 4, 6, 10(r), 14(r), 18(r), 20(r), 22, 24(r), 28(r)(there's a typo in the second equality; it should read $\det(\lambda I - A)$), 33, 34(make sure you understand 33 first), 40(r), 42(r), 43, 44(r), 48, 53 (check probs 2,4,6). Sec. 6.2: 2, 4, 6, 10, 14, 15, 16(r), 18(r), 20(r), 22, 26(r), 28, 30(check calculations for probs 2,4). Sec. 6.3: 2, 3(you can use MATLAB to calculate high powers of the step matrix), 6(r), 8(r), 9(typo in the number that loops from C back into C: you should use 0.8 instead of 0.86), 11(r).

	<p>Sec. 6.4: 1 (you can use MATLAB to find 'k'), 3, 4(r) (you can use MATLAB for part d of the problem), 6(r), 8, 9(r), 12(r), 14, 20(r), 21(r).</p> <p>Sec. 8.5: 24(r), 36(r)</p>
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