

**Guidelines: Homework is regularly assigned by not collected.** Do it promptly. Keep a separate homework notebook.

Your solutions should always include reasoning. This helps reinforce logical structure, and trains you in critical thinking. Write clearly. Use “we are given”, “we want to show that” at the start of a proof to distinguish clearly between what is given and what is to be proved. Do not put an equals sign between unequal quantities, or quantities you have not yet proved are equal. Use words like “hence”, “therefore” to connect statements or equations, and indicate the chain of reasoning. Interpret your answers.

OEC = Optional Extra Credit: You may turn these in for extra credit. The work you submit must be your own. Please refer to the Academic Integrity policy on the class handout. Extra credit problems are harder than the regular homework problems, and grading will be strict. *Illegible solutions without statements and reasoning will be returned ungraded.* Spending time on extra-credit problems before you have successfully finished the assigned homework problems is counterproductive, and will hurt rather than help your grade.

For updates to this list, please regularly check the homework page linked to

<http://homepages.wmich.edu/~mackey/Teaching/230/>

	OEC	Due
§1.1 p. 10: 1d, 2d, 3, 4d, 5bd, 6cgh, 7, 8, 10, 11.	9	Sept 19
§1.2 p. 25: 2 – 4, 5bcefjk, 8, 9, 13 – 15, 18 – 20.		
§1.3 p. 42: 1 – 4, 5c, 6c, 7b, 8bc, 9, 10ab, 11, 12, 14, 15	16	Sept 26
§1.4 p. 56: 1 – 5, 7, 9, 10, 11abc, 12, 13, 15, 16, 19 – 23, 24, 25a, 28, 30a.		
§1.5 p. 66: 1 – 3, 5, 7, 10a – f, 11, 12ab, 15 – 17, 21, 23, 24, 27, 29 – 31.		
§1.6 Class discussion of block diagonal matrices.		
p. 81 Chapter Test A, True or False with Justification: 1 – 11		
p. 82 Chapter Test B: 2, 3, 5a, 6, 7		
§2.1 p. 90: 2, 3a-dg, 4 – 6, 9, 11		
§2.2 p. 97: 1, 2a, 3, 5, 6, 7, 9, 10, 11 – 14, 16, 18ab.		
		Know the result of 18c. Read and understand 20 – 21.
p. 108 Chapter Test A, True or False with Justification: 1 – 10. (Justification not needed for 1.)		
		Chapter Test B: 1, 4, 5, 6, 8, 9.
§3.1 p.116: 3 – 16.		
§3.2 p.125: 1 – 5, 6bcd, 7 – 9, 10a, 11abc, 12abe, 13 – 17, 19 – 22.		
§3.3 p.137: 1abc, 2bce, 3 – 5, 8abc, 13 – 16, 19, 20.	17	2 Nov.
§3.4 p.143: 1abc, 2bce, 3, 5 – 8, 10 – 12.		
§3.5 p.153: Skip transition matrix. Know the defn of coordinates with respect to an ordered basis, and how to find these coordinates by directly using the definition. Do 5b, 6b, and review problems done in class.		
§3.6 p.159: 1, 2c, 3, 4, 6 – 9, 12, 14, 16, 19, 25a, 27.		
p. 164 Chapter Test A, True or False with Justification: 2, 4 – 13		
p. 164 Chapter Test B: 1 – 4, 6 – 10		

		OEC	Due
§4.1 p.174:	1, 3 – 8, 9ac, 10, 13, 16, 17, 18a, 19a, 23.	13, 16, 21	30 Nov
§4.2 p.187:	1 – 3, 4bc, 5, 6, 13, 14ab, 15, 16, 18ab.		
§4.3 p.196:	1, 7, 8, 9, 11 – 14.		
p. 196	Chapter Test A, True or False with Justification: 1 – 4, 6, 7, 9		
p. 197	Chapter Test B: 1, 2, 5, 6, 10.		
§5.1 p.212:	1, 2, 3, 12, 13, 14, 17.		
§5.2 p.221:	1 (Find basis for Rowspace, Columnspace and Nullspace only). 2 – 4, 6 – 9.		
§6.1 p. 296:	1abcfghkl, 2 – 4, 6 – 11, 13, 18, 26, 28, 29, 31.		

*Last Updated: Monday 5<sup>th</sup> December, 2011, 19:49*