

CH 11 - DUE CH 11 TEST DAY

15 POINTS

Homework is intended as a space for you to develop conceptual understanding and skill at communicating your understanding. It is collected only as way to help you develop discipline and maturity. It is due at the **start** of the indicated class period (or may be turned in early). No late homework is accepted, and you may not copy solutions from another source.

For each section in Chapter 11, indicate the homework problems completed (circle completed problems, add problem # for any unassigned problems you did and in 1-2 words describe any problems you made up and solved). A problem is considered “completed” if you have confirmed that you have developed the solution accurately and can articulate the process by which you developed it.

Complete and submit this sheet as well as all completed homework problems. Section numbers should appear at the beginning of each new section, and presentation will be evaluated based on the guidelines provided in the syllabus.

Full credit will be awarded if you completed a **sufficiently large, intentional, representative sampling** of problems throughout the chapter with appropriate presentation. You do not have to complete all problems to receive full credit, and you will receive a penalty for failing to meet the presentation guidelines.

- 11.1 # 1, 2, 3, 7, 23, 27, 33, 37, 47, 51, 60, 75, 78, 81, 83, 99Proofs: # 95
- 11.2 # 2, 3, 5, 26, 29, 35, 38, 45, 61, 81, 97, 98, 101 (see Ex 7)
- 11.3 # 7, 15, 17, 19, 25, 39, 41, 45, 46, 47, 48, 53, 61Proofs: # 63, 64, 72
- 11.4 # 1, 9, 11, 17, 21, 27 (see Ex 4), 35, 39, 40, 42Proofs: # 45 - 54
- 11.5 # 2, 4, 12, 13, 19, 21, 25, 29, 33, 37, 41, 43, 47, 51, 53, 61, 67, 71, 81, 89, 93, 97, 103, 105-107Proofs: # 113, 117
- 11.6 # 1, 5 - 10, 15, 17 - 19, 21, 23, 27, 47Proofs: # 50
- 11.7 # 1, 7, 11, 17, 23, 25, 29, 33, 37, 43, 47, 49, 51, 53, 57, 61, 67, 71 -77, 79, 81, 83, 85, 87, 89, 91, 93
(proficiency with this section is very important for Ch 14)Proofs: # 103, 104

CH 12 - DUE CH 12 THEORY TEST DAY

10 POINTS

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For each section in Chapter 12, indicate the homework problems completed (circle completed problems, add problem # for any unassigned problems you did and in 1-2 words describe any problems you made up and solved). A problem is considered “completed” if you have confirmed that you have developed the solution accurately and can articulate the process by which you developed it.

Complete and submit this sheet as well as all completed homework problems. Section numbers should appear at the beginning of each new section, and presentation will be evaluated based on the guidelines provided in the syllabus.

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Students who maintain an A course grade receive full homework credit and are not required to submit any homework for Ch 12.

12.1 Vector Competence: # 1, 2, 11, 15, 17, 25, 27, 31, 33, 34, 36, 37, 49, 51, 55, 59, 61, 65, 67, 73, 87

12.1 Proofs: # 83-85

12.2 Proofs: # 61-68, 75, 76

12.3 Proofs: # 47, 48a, 49, 50, 59, 62

12.3-5 List all required definitions/proofs for a full development of the moving basis, and write this development from memory at least twice.

CH 12 - DUE CH 12 PROBLEMS TEST DAY

10 POINTS

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For each section in Chapter 12, indicate the homework problems completed (circle completed problems, add problem # for any unassigned problems you did and in 1-2 words describe any problems you made up and solved). A problem is considered “completed” if you have confirmed that you have developed the solution accurately and can articulate the process by which you developed it.

Complete and submit this sheet as well as all completed homework problems. Section numbers should appear at the beginning of each new section, and presentation will be evaluated based on the guidelines provided in the syllabus.

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12.2 # 13-17, 31, 35, 38, 43, 45, 49, 52

12.3 # 27-30, 33a, 33c, 35, 36, 52

12.3-5 For each of the following problems find, graph, and interpret **all** the elements of the moving basis at the right endpoint of the range given see section 12.5 # 11 - 13

CH 13 - DUE

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For each section in Chapter 13, indicate the homework problems completed (circle completed problems, add problem # for any unassigned problems you did and in 1-2 words describe any problems you made up and solved). A problem is considered “completed” if you have confirmed that you have developed the solution accurately and can articulate the process by which you developed it.

Complete and submit this sheet as well as all completed homework problems. Section numbers should appear at the beginning of each new section, and presentation will be evaluated based on the guidelines provided in the syllabus.

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Since Chapter 13’s oral exam does allow for the demonstration of your computational proficiency, all students will submit homework for this chapter.

13.1	# 3, 33, 34, 47-50	Proofs: # 91, 94
13.2	# 13, 15, 17, 21, 45, 53, 57, 77	Proofs: # 81
13.3	# 2, 13, 19, 23, 27, 29, 35, 40, 53, 55, 61, 71, 73, 75, 79, 84, 93, 99, 107, 114, 122	
13.4	# 2, 9, 11, 13, 15, 17, 21, 22, 29, 30, 35, 39	
13.5	# 1, 7, 9, 19, 21, 23, 25, 29, 33, 34, 35, 37, 48, 51,	Proofs: # 45
13.6	# 1, 2, 3, 7, 11, 13, 15, 19, 24, 27, 29, 33, 37, 39, 41, 47, 48, 51, 56 and	Proofs: # 61, 62, 67
13.7	# 1, 2, 13, 15, 19, 23, 25, 26, 39, 43, 45, 47, 49, 51, 61	Proofs: # 57, 60
13.8	# 1, 5, 7, 9, 11, 13, 15, 21, 23, 25, 27, 31, 33, 37, 43, 50, 52, 57	
13.9	# 1, 5, 9, 10, 11, 15, 17, 19, 21, 25, 29	
13.10	# 1, 2, 5, 9, 14, 15, 17, 29, 35, 37, 40	

CH 14 - DUE

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For each section in Chapter 14, indicate the homework problems completed (circle completed problems, add problem # for any unassigned problems you did and in 1-2 words describe any problems you made up and solved). A problem is considered “completed” if you have confirmed that you have developed the solution accurately and can articulate the process by which you developed it.

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- 14.1 # 2, 11, 15, 21, 27, 29, 33, 35, 38, 39, 41, 43, 45, 47, 55, 57, 61, 69, 77 (sketch the region for all, do some by hand)
 - 14.2 # 7, 10, 11, 15, 17, 19, 21, 23, 25, 29, 31, 33, 35, 37, 39, 45, 50, 57, 59, 61, 64, 68 (I grew up here ... the snow is real)
 - 14.3 # 3, 4, 9, 13, 15, 16, 17, 19, 23, 27, 29, 31, 36, 37, 41, 43, 45, 49, 51, 53, 56, 57, 63, 67
 - 14.4 # 4, 15, 20, 22, 25, 28, 30, 34, 35, 37, 48
 - 14.5 # 1, 3, 5, 13, 15, 17, 20, 23, 26, 27, 30, 32, 33, 37, 38
 - 14.6 # 5, 9, 17, 19, 21, 23 - 29, 35, 38, 39, 61, 65
 - 14.7 # 5, 6, 11 - 13, 16 - 19, 21, 23, 25, 26, 28, 31, 33, 34 - 36, 41 - 44
 - 14.8 # 2, 3, 5, 11, 13, 17, 19 - 21, 27, 30, 32, 33, 35, 37, 39, 40
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CH 15 - DUE CH 15 TEST DAY

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For each section in Chapter 15, indicate the homework problems completed (circle completed problems, add problem # for any unassigned problems you did and in 1-2 words describe any problems you made up and solved). A problem is considered “completed” if you have confirmed that you have developed the solution accurately and can articulate the process by which you developed it.

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15.1 # 2-8, 11, 13, 21, 25, 27, 29, 31, 33, 35, 39, 43, 45, 49, 51, 53, 55, 59 - 61, 65 - 68

15.2 # 1 - 4, 6 - 8, 10, 12, 15, 19, 21, 23, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 51, 59, 61, 79, 84, 87

15.3 # 1 - 3, 11, 13, 17, 21, 25, 26, 29, 31, 35, 38, 39, 41 - 43, 49

15.4 # 4, 6, 8, 9, 11, 13, 15, 19, 23, 27, 31, 39, 43 - 45

15.5 # 3, 5, 7, 33, 37, 41

15.6 # 9, 15, 23, 25, 31, 35, 42

15.7 # 2, 7, 11, 15, 17, 19, 21, 24, 26
 review Khan Academy Divergence article on course page

15.8 # 2, 3, 5, 9, 11, 13, 15, 17
 review Khan Academy Curl article on course page
