

Math 120: Calculus of Functions of Several Variables

Homework Sections 6 and 8

Listed below are exercises for each section of our textbook in the order that we cover the topics in class. Note that these problems are from the EIGHTH edition of Stewart's Calculus, and there are significant changes from previous editions. **The "Practice problems" are not to be turned in**, they have solutions in the back of the book and you can use them to check your understanding of the material, or to study for exams. **The "Homework problems" are due during class time each Thursday**. The due dates are posted in the rightmost column. See this semester's [Schedule](#) for a timeline of the topics.

CHAPTER 12			
SECTION	PRACTICE PROBLEMS	HOMEWORK PROBLEMS	DUE DATE
12.1	9, 13, 17	10, 16, 18	September 10
12.2	15, 19	16, 20	September 10
12.3	17, 25, 41	18, 26, 42	September 10
12.4	3, 19, 27	4, 20, 28	September 17
12.5	3, 19, 29, 45, 57, 71	2, 20, 26, 46, 58, 72	September 17
CHAPTER 13			
SECTION	PRACTICE PROBLEMS	HOMEWORK PROBLEMS	DUE DATE
13.1	21, 23, 25	22, 24, 26	September 17
13.2	7, 11, 17, 23, 35	4, 12, 18, 24, 36	September 24
13.3	5	4	September 24
13.4	3, 13, 15, 21	4, 14, 16, 20	September 24

CHAPTER 14

SECTION	PRACTICE PROBLEMS	HOMEWORK PROBLEMS	DUE DATE
14.1	15, 27, 47, 61, 63, 65	14, 28, 48, 62, 64, 66	September 24
14.2	7, 9, 11, 13, 15, 17, 37, 39	8, 10, 12, 14, 16, 18, 38, 40	October 1
14.3	15, 17, 25, 41	16, 18, 26, 42	October 1
14.5	3, 7, 21, 27, 31	4, 8, 22, 28, 34	October 1
14.6	5, 7, 13, 25, 41, 45, 53	4, 8, 12, 24, 42, 46, 54	October 8**
14.7	5, 7, 31, 37, 41	6, 8, 32, 36, 42	October 8**

CHAPTER 15, part I: sections 15.1 - 15.3 (rest later)

SECTION	PRACTICE PROBLEMS	HOMEWORK PROBLEMS	DUE DATE
15.1	3 (using geometry), 15, 25, 31, 39	4 (using geometry), 16, 22, 32, 40	October 15
15.2	7, 17, 23, 51	10, 18, 24, 52	October 15
15.3	11, 17, 21, 25	14, 18, 22, 24	October 15

CHAPTER 16, part I: sections 16.1 - 16.8 (rest later)

SECTION	PRACTICE PROBLEMS	HOMEWORK PROBLEMS	DUE DATE
16.1	3, 5, 21, 25, 29, 31	4, 6, 22, 26, 30, 32	October 29
16.2	1, 5, 11, 13, 19, 21	2, 6, 10, 14, 20, 22	October 29
16.3	3, 5, 13, 15, 19, 25, 29	4, 6, 14, 18, 20, 30, Line 1	November 5 (changed)
16.4	1, 7, 13, 27	2, 10, 14, Green 1 , Green 2	November 5
16.5	1, 5, 13, 19, 25	2, 6, 14, 20, 26	November 12
16.6	3, 13, 15, 17, 21, 33, 43, 45	4, 14, 16, 18, 22, 34, 42, 46	November 12
16.7	5, 9, 21, 23, 45	6, 8, 22, 24, 46	November 19
16.8	3, 5, 7, 9, 13	4, 6, 8, 10, 14, Stokes 1 , Stokes 2	November 19

CHAPTER 15, part II: sections 15.6 - 15.8

SECTION	PRACTICE PROBLEMS	HOMEWORK PROBLEMS	DUE DATE
15.6	3, 9, 15, 21, 27	4, 10, 12, 22, 28	December 3
15.7	7, 9, 15, 17, 23, 29	8, 10, 16, 18, 24, 30	December 3
15.8	7, 9, 13, 21, 23, 41	8, 10, 14, 24, 26, 42, Triple 1	December 10

CHAPTER 16, part II: section 16.9

SECTION	PRACTICE PROBLEMS	HOMEWORK PROBLEMS	DUE DATE
16.9	3, 7, 11, 17, 25	4, 8, 12, 18, 26, Div 1 , Div 2	December 10