Fall 2010. Ma116 (Calculus II).

Textbook: J.Stewart. Concepts and Contexts. 4th edition.

Week	Monday	Wednesday	Friday
1	lecture	lecture	lecture
8/30-	Limits.	Sequences.	Sequences.
9/5	L'Hospital rule.	Sec. 8.1	Sec. 8.1

Hw1 due on Thursday 9/9:

Appendix A # 2, 8, 12, 18, 28, 29, 42.

Sec. 8.1 # 4, 8, 18, 28, 32, 54(bonus)

Additional problems (recommended but not graded):

Sec. 8.1 # 9, 10, 12, 13, 15, 17, 20, 21, 22, 23, 24, 26, 29, 30, 32, 34, 46, 47, 48, 50, 52, 53, 55, 56, 57, 58, 59, 60.

Week	Monday	Wednesday	Thursday recitation	Friday
2	lecture	lecture		lecture
9/6-	Labor day	Series.	Sec. 8.2 # 9, 10, 11, 17, 19,	Convergence
9/11		Sec. 8.2	27, 29, 35, 37, 41	tests. Sec. 8.3

Hw2 due on Thursday 9/16:

Sec. 8.2 # 10, 14, 18, 20, 28, 34, 36, 39, 42.

Sec. 8.3 # 8, 10, 12, 18, 36, 42(bonus).

Additional problems (recommended but not graded):

Sec. 8.2 # 22, 24, 26, 30, 44, 47, 48, 49, 53, 54, 55, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68.

Sec. 8.3 # 3, 4, 5, 6, 7, 9, 11, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 34, 35, 39, 41, 43, 44, 45, 46

41, 43, 44, 45, 46.

Week	Monday	Wednesday	Thursday recitation	Friday
3	lecture	lecture		lecture
9/12-	Convergence	Power series.	Sec. 8.4 # 2, 5, 15, 23, 31	Representation
9/18	tests. Sec. 8.4	Sec. 8.5	Sec. 8.5 # 7, 9, 11, 17, 19	of functions.
				Sec. 8.6

Hw3 due on Thursday 9/23:

Sec. 8.4 # 6, 16, 24, 30, 32, 33, 36, 37.

Sec. 8.5 # 8, 10, 12, 14, 18, 24(bonus).

Additional problems (recommended but not graded):

Sec. 8.4 # 3, 4, 7, 8, 9, 10, 13, 14, 19, 20, 21, 22, 25, 26, 27, 28, 29, 34, 35, 38, 39, 40, 41, 42.

Sec. 8.5 # 3, 4, 5, 6, 13, 15, 16, 20, 21, 22, 23, 25, 26, 27, 29, 35, 36.

Week	Monday	Wednesday	Thursday recitation	Friday
4	lecture	lecture		lecture
9/19-	Taylor series.	Taylor series.	Sec. 8.6 # 5, 15, 27.	Taylor series
9/25	Sec. 8.7	Sec. 8.7-8.8	Sec. 8.7 # 1, 5, 11, 21, 29,	Sec. 8.8
			43, 51.	
			Sec. 8.8 # 11a-b, 23	

Hw4 due on Thursday 9/30:

Sec. 8.6 # 6, 16, 28, 38(bonus).

Sec. 8.7 # .2, 6, 12, 22, 26, 30, 38, 44, 50, 54, 60

Sec. 8.8 # .12a-b, 24, 28(bonus)

Additional problems (recommended but not graded):

Sec. 8.6 # 2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 32, 33, 37.

Sec. 8.7 # .7, 8, 9, 10, 13, 14, 15, 16, 17, 18, 23, 24, 25, 27, 28, 31, 32, 33, 34, 35, 36, 37, 45, 46, 47, 49, 52,

53, 55, 56, 59, 61, 62, 63, 64, 65, 66, 68, 69.

Sec. 8.8 # 3, 4, 5, 6, 7, 8, 13-18, 25, 27, 28, 30, 32.

7	Week	Monday	Wednesday	Thursday recitation	Friday
	5	lecture	lecture		lecture
Ç	9/27-	Taylor series.	Taylor series	Chapter 8. Review	Limits with
1	10/03	-	-	problems	Taylor series.

No Homework assignment due Thursday 10/07.

Week 6. October 4 - 9, 2010

Week	Monday	Tuesday	Wednesday	Thursday recitation	Friday
6	lecture		lecture		lecture
10/04-	Series -	Quiz 1 at 2pm	9.1-9.3 Dot	Sections 9.2-9.3	9.4 Cross
10/09	review.		(scalar)		(vector)
			product		product.

Hw 5 due on Thursday 10/14:

Sec. 9.2 # 18, 20, 22.

Sec. 9.3 # .2, 8, 10, 18, 22, 24, 30, 45(bonus).

Sec 9.4 # 2, 8, 18, 20, 28, 30, 32, 36 (bonus), 42(bonus)

Additional problems (recommended but not graded):

Sec. 9.2 # 21, 32, 38, 40.

Sec. 9.3 # .36, 39, 40, 41, 43, 48, 49, 50, 51, 52.

Sec. 9.4 # 33, 34, 35, 37, 38, 39, 40, 41.

Week 7. October 12 – 16, 2010

Week 7	Monday (Tuesday) lecture	Wednesday lecture	Thursday recitation	Friday lecture
10/12- 10/16	9.5	9.5	Sections 9.4, 9.5	9.6, 9.7

Hw 6 due on Thursday 10/21:

9.5 # 12, 18, 24, 28, 38, 44, 54. 9.6 # 2, 18, 20, 22, 28(bonus) 9.7 # 4, 6, 8, 10, 22, 26.

Week 8. October 18 – 24, 2010

Week	Monday lecture	Wednesday	Thursday	Friday
8		lecture	recitation	lecture
10/18-	9.6, 9.7 – Quadric surfaces,	10.1, 10.2 -	Sections 9.7,	10.4 – motion
10/24	cylindrical and spherical	curves	10.1, 10.2	
	coordinates			

Hw 7 due on Thursday 10/28:

10.1 # 2, 4, 14, 26, 38, 44 10.2 # 4, 12, 18, 24, 26, 32, 36, 40, 50(bonus), 52 10.4 # 10, 14, 18, 24, 38

Week 9. October 25 - 30, 2010

Monday lecture	Wednesday	Thursday	Friday
	lecture	recitation	lecture
10.5 – parametric surfaces	11.1, 11.3	Sections 10.4,	11.4 tangent
	partial	10.5	planes
	derivatives		

Hw 8 due on Thursday 11/04 (recommended fulfillment: before Quiz 2 on 11/2): **10.5** # 2, 13-18, 20, 22, 26, 34a (bonus)

Week 10. November 1 – 6, 2010

Monday lecture	Tuesday	Wednesday	Thursday	Friday
		lecture	recitation	lecture
Review	Quiz 2	11.4	Sections 11.1,	11.5 Chain rule
	9.1-9.7, 10.1, 10.2,	Approximations	11.3, 11.4	
	10.4, 10.5			

Hw 9 due on Thursday 11/11

11.1 # 6, 12, 14, 22, 42 11.3 # 2, 9, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 40 11.4 2, 16, 24, 32, 42, 46, 48(bonus)

Week 11. November 8 – 13, 2010

Monday lecture	Wednesday	Thursday	Friday
	lecture	recitation	lecture
11.4, 11.5	11.6 Directional	Sections 11.5,	11.7
	derivative.	11.6	Max&Min

WebAssign due Monday 11/15 8pm.

Hw 10 due on Thursday 11/18:

11.5 # 22, 30, 32, 46

11.6 # 8, 12, 20, 22, 40, 42, 52(bonus)

11.7 # 4, 6, 8, 10, 28.

Week 12. November 15 – 20, 2010

Monday lecture	Wednesday	Thursday	Friday
	lecture	recitation	lecture
11.8 Lagrange	12.1, 12.2	Sections 11.7,	12.3 General
multipliers	Double integrals.	11.8, 12.2	regions
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WebAssign due Monday 11/22 8pm.

No Hw due Thursday 11/25

Week 13. November 22 - 27, 2010

Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
12.3 General regions	Holiday.	Holiday	Holiday

WebAssign due Monday 11/29 8pm.

Hw 11 due on Thursday 12/2 (recommended fulfillment: before Quiz 3 on 11/30)

11.8 # 4, 6, 8, 12, 14, 16, 24(bonus), 46(bonus)

12.1 # 12, 18.

12.2 # 4, 6, 8, 12, 14, 16, 18, 20, 22, 26, 28, 30, 36, 38.

Week 14. November 29 – December 4, 2010

Monday lecture	Tuesday	Wednesday	Thursday	Friday
	11/30	lecture	recitation	lecture
Review	Quiz 3:	12.4.	12.3, 12.4	12.5
	Ch. 11,			
	12.1-12.2			

WebAssign due Monday 12/6 8pm.

Hw 12 due on Thursday 12/9 12.3 # 2, 4, 6, 8, 14, 16, 18, 20, 24, 26 **12.4** # 2, 4, 8, 10, 16, 18, 28, 30 **12.5** # 2, 4, 16, 24.

Week 15. December 6 – December 10, 2010

Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
Review	Review	12.5	Review

December 20, 8am-12pm - Final exam

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