

Fall 2009. Ma116 (Calculus II).

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

Week 1	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
8/31- 9/6	Sequences. Sec. 8.1	Sequences. Sec. 8.1	Appenx A # 7, 9, 23, 37, 43. Sec. 8.1 # 3, 7, 11, 19, 25, 27, 31, 33, 43a, 49, 51	Sequences. Sec. 8.1

Hw1 due on Thursday 9/10:

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 2	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
9/6- 9/12	Labor day	Series. Sec. 8.2	Sec. 8.2 # 9, 10, 11, 17, 19, 27, 29, 35, 37, 41	Convergence tests. Sec. 8.3

Hw2 due on Thursday 9/17:

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.

Week 3	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
9/13- 9/19	Convergence tests. Sec. 8.4	Power series. Sec. 8.5	Sec. 8.4 # 2, 5, 15, 23, 31 Sec. 8.5 # 7, 9, 11, 17, 19	Representation of functions. Sec. 8.6

Hw3 due on Thursday 9/24:

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 4	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
9/20- 9/26	Taylor series. Sec. 8.7	Taylor series. Sec. 8.7-8.8	Sec. 8.6 # 5, 15, 27. Sec. 8.7 # 1, 5, 11, 21, 29, 43, 51. Sec. 8.8 # 11a-b, 23	Taylor series Sec. 8.8

Hw4 due on Thursday 10/01 (we recommend to do this Hw before the review on Monday 9/28):

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.

Week 5	Monday lecture	Tuesday 9/29	Wednesday lecture	Thursday recitation	Friday lecture
9/27- 10/03	Series. Review.	Quiz 1. Series.	Quiz 1 solutions. Vectors. Sec. 9.1-9.3	9.2: # 17, 19, 35. 9.3 # 1, 3, 15, 21, 29, 37.	Cross product. Sec. 9.4-9.5.

Hw5 due on Thursday 10/08:

Sec. 9.2 # 18, 20, 22, 26, 27, 30, 37.

Sec. 9.3 # .2, 8, 10, 18, 20, 22, 24, 30, 32, 38, 45(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.

Week 6	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
10/04- 10/10	Lines.	Lines	9.5	Planes.

Week 7	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
10/11- 10/17	10.1.	10.2	10.1-10.2	10.3

Hw 7 due on Thursday 10/22:

9.5 12, 18, 24, 28, 38, 44, 54.

Week 8	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
10/18-10/24	10.4.	10.4	10.3-10.4	9.6, 10.5

Hw8 due on Thursday 10/29

10.1 # 19-24, 38, 44.

10.2 #22

10.3 # 8, 18, 22, 58 (bonus)

10.4 # 14, 36

Week 9	Monday lecture	Tuesday Quiz 2	Wednesday lecture	Thursday recitation	Friday lecture
10/25-11/01	Review		11.1-11.2	11.1-11.3	11.4 Tangent planes

Hw9 due on Thursday 11/05:

9.6 # 20,22(bonus)

11.1: 16, 17, 18, 20, 23

11.2: 8, 11, 19, 20, 30, 32, 33

11.3: 6, 7, 8, 16-20, 40, 46, 47, 50.

Week 10	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
11/01-11/08	11.4 Tangent planes	11.4 Differentials 11.5 Chain rule	11.4-11.5	11.6 Directional Derivatives

Hw10 due on Thursday 11/12:

11.4 2, 4, 6, 12, 16, 24, 26, 28, 34, 40, 42, 44, 46

11.5: 2, 6, 10, 14, 22, 28, 30, 32.

Week 11	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
11/09-11/15	11.6	11.7	11.6, 11.7	11.8

Hw11 due on Thursday 11/19:

11.6 4, 6, 8, 10, 12, 16, 18, 20, 22, 24, 26, 30, 36, 40, 42, 44, 48, 50, 59, 62(bonus)

11.7 2, 6, 8, 10, 12, 14, 16, 18, 28, 32, 36, 38, 42, 46.

Week 12	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
11/15-11/22	11.7-11.8 Lagrange	12.1-12.2 Double	11.8	12.3

	multipliers	integrals		
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Hw12 due on Monday 11/23:

11.8 4, 6, 12, 28, 30, 34, 38.

Week 13	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
11/22- 11/29	12.3	No classes	No classes	No classes

Hw13 due on Thursday 12/3

12.1 12

12.2 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 26, 28, 30, 36, 38

12.3 2, 4, 6, 8, 10, 16, 18, 20, 22, 24, 26, 28, 30, 32, 36, 42, 44, 46, 48, 50, 52, 56, 58, 60, 64 (bonus)

Week 14	Monday lecture	Tuesday Quiz 3	Wednesday lecture	Thursday recitation	Friday lecture
11/29- 12/05	Review	Sections 11.1- 11.8	H, 12.4	12.4	12.5

Hw14 due on Thursday 12/10:

12.4 8, 10, 12, 14, 16, 18, 20, 22, 26, 28, 30, 34, 36

12.5 4, 12, 24, 28

Week 15	Monday lecture	Wednesday lecture	Thursday recitation	Friday lecture
12/05- 12/12	Review	Review	12.5	Review

December 18, 1-5pm - Final exam

Ma116A – E222

Ma116C – K228