

**Math 113H Sections 12 and 14 -- Winter 2008**

Lecture Day	Section	Title
1	7-Jan	6.1 Areas between Curves
2	9-Jan	6.2 Volumes
3	11-Jan	6.3 Volumes by Cylindrical Shells
4	14-Jan	6.4 Work
		6.5 Average Value of a Function
5	16-Jan	7.1 Integration by Parts
6	18-Jan	7.2 Trigonometric Integrals
	21-Jan	<i>Martin Luther King, Jr. Day</i>
7	23-Jan	7.3 Trigonometric Substitution
8	25-Jan	7.4 Integration by Partial Fractions
		<b>Exam 1 -- Jan 25 through Jan 29</b>
9	28-Jan	7.5 Strategy for Integration
10	30-Jan	<del>7.7</del> Approximate Integration
11	1-Feb	7.8 Improper Integrals
12	4-Feb	7.8 Improper Integrals
13	6-Feb	App. G The Logarithm Defined as an Integral
14	8-Feb	8.1 Arc Length
15	11-Feb	8.2 Area of a Surface of Revolution
16	13-Feb	8.3 Applications to Physics and Engineering
		<b>Exam 2 -- Feb 13 through Feb 16</b>
17	15-Feb	8.3 Applications to Physics and Engineering
	18-Feb	<i>Presidents Day</i>
18	19-Feb	8.4 Applications to Economics and Biology
19	20-Feb	8.5 Probability
20	22-Feb	11.1 Sequences
21	25-Feb	11.1 Sequences
22	27-Feb	11.2 Series
23	29-Feb	11.3 The Integral Test and Estimates of Sums
24	3-Mar	11.3 The Integral Test and Estimates of Sums
25	5-Mar	11.4 The Comparison Tests
26	7-Mar	11.5 Alternating Series
		<b>Exam 3 -- Mar 7 through Mar 11</b>
27	10-Mar	11.6 Absolute Convergence, Ratio and Root Tests
28	12-Mar	11.7 Strategy for Testing Series
29	14-Mar	11.8 Power Series
30	17-Mar	11.9 Representations of Functions as Power Series
31	19-Mar	11.10 Taylor and Maclaurin Series
32	21-Mar	11.10 Taylor and Maclaurin Series
33	24-Mar	11.11 Applications of Taylor Polynomials
34	26-Mar	10.1 Curves Defined by Parametric Equations
35	28-Mar	10.2 Calculus with Parametric Curves
36	31-Mar	10.3 Polar Coordinates
37	2-Apr	10.3 Polar Coordinates
38	4-Apr	10.4 Areas and Lengths in Polar Coordinates
		<b>Exam 4 -- Apr 4 through Apr 8</b>
39	7-Apr	10.5 Conic Sections
40	9-Apr	10.6 Conic Sections in Polar Coordinates
41	11-Apr	Review
42	14-Apr	Review
	18-Apr	<b>Final Exam -- 7:00 pm to 10:00 pm</b>

Assignment	Section	Assigned Exercises	Due Date
1	6.1	2, 3, 9, 13, 21, 27, 28, 29, 42, 45, 51, 53	11-Jan
2	6.2	7, 9, 11, 12, 16, 25, 26, 34, 35, 40, 43, 49, 51, 57, 63, 67	14-Jan
3	6.3	2, 5, 13, 17, 25, 29, 41	16-Jan
4	6.4	7, 9, 13, 17, 18, 21	18-Jan
	6.5	6, 7, 10, 13, 19, 20, 23	
5	7.1	3, 4, 9, 15, 17, 20, 35, 44, 45, 47, 67	23-Jan
6	7.2	3, 6, 7, 13, 19, 20, 43, 56, 68, 70	25-Jan
7	7.3	5, 13, 17, 24, 31, 32, 39	28-Jan
8	7.4	1, 2, 5, 6, 9, 12, 17, 29, 50, 55, 58, 67, 70	1-Feb
		<b>Exam 1 Topics: 6.1-6.4, 7.1-7.2</b>	
9	7.5	3, 9, 12, 14, 15, 23, 31, 42, 45, 58, 79, 80	4-Feb
	<del>7.7</del>		
11	7.8	5, 7, 11, 13, 18, 21, 26, 27	6-Feb
12	7.8	49, 50, 57, 58, 60, 61, 78	8-Feb
13	App. G	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	11-Feb
14	8.1	3, 4, 5, 6, 8, 11, 23, 33, 40	13-Feb
15	8.2	1, 3, 5, 10, 11, 15, 16, 17, 21, 25, 29, 30	15-Feb
16	8.3	5, 7, 9, 10, 14, 15, 22, 26, 27	19-Feb
		<b>Exam 2 Topics: 6.5, 7.1-7.8, App. G</b>	
17	8.3	31, 33, 36, 39, 40, 41, 42, 48	20-Feb
18	8.4	<del>2, 3, 5, 6, 10, 17, 19</del>	22-Feb
19	8.5	1, 6, 7, 8, 10, 13, 16, 17, 18, 19	25-Feb
20	11.1	3, 5, 6, 9, 10, 11, 13, 15, 18, 19, 27, 28, 29	27-Feb
21	11.1	35, 36, 43, 47, 48, 53, 56, 58, 61, 69, 74, 78	29-Feb
22	11.2	3, 7, 9, 11, 13, 15, 17, 21, 22, 24, 27, 29	3-Mar
23	11.2	31, 33, 35, 36, 41, 47, 48, 55, 59, 65, 71	5-Mar
24	11.3	1, 2, 3, 6, 7, 11, 13, 15, 17, 18, 24, 27, 30, 31, 32, 33, 39, 40	7-Mar
25	11.4	1, 2, 5, 8, 10, 15, 17, 25, 31, 33, 36, 37, 40, 42, 44, 45	10-Mar
26	11.5	4, 5, 6, 7, 11, 13, 16, 17, 21, 24, 28, 33	12-Mar
		<b>Exam 3 Topics: 8.1-8.5, 11.1</b>	
27	11.6	1, 2, 3, 4, 8, 10, 13, 19, 21, 25, 26, 27, 28, 29, 31, 38	14-Mar
28	11.7	8, 14, 18, 36, 38	17-Mar
29	11.8	3, 7, 15, 23, 24, 27, 28, 29, 30, 35, 36, 37	19-Mar
30	11.9	5, 8, 11, 13, 15, 21, 22, 23, 27, 28, 32, 33, 38	21-Mar
31	11.10	2, 3, 4, 5, 6, 7, 9, 11, 15, 17, 18, 19, 20, 24, 27, 33	24-Mar
		Memorize all boxed formulas and theorems in Section 11.10	
32	11.10	34, 35, 36, 37, 41, 42, 43, 49, 53, 56, 57, 61, 62, 63, 64, 68	26-Mar
33	11.11	1, 2, 5, 9, 10, 11, 18, 19, 25, 26, 28, 29, 33, 39	28-Mar
34	10.1	4, 7, 9, 13, 21, 24, 27, 28, 33, 42, 47	31-Mar
35	10.2	2, 5, 9, 11, 17, 25, 32, 41, 45, 49, 65	2-Apr
36	10.3	2, 3, 4, 5, 6, 9, 10, 11, 12, 17, 18	4-Apr
37	10.3	25, 33, 35, 37, 39, 50, 59, 63	7-Apr
38	10.4	5, 7, 11, 16, 21, 27, 42, 47	9-Apr
		<b>Exam 4 Topics: 11.2-11.11</b>	
39	10.5	5, 7, 9, 14, 15, 18, 19, 27, 32, 33, 37, 38, 47, 48, 64	11-Apr
40	10.6	3, 5, 7, 11, 13, 15, 17, 18	14-Apr
		Location of Final Exam to be determined	

Honors	Due Date
A	Thu, Jan 17
B	Thu, Jan 31
C	Fri, Feb 22
D	Tue, Mar 4
E	Thu, Mar 20
F	Tue, Apr 1
G	Tue, Apr 15