

# Math 32, Fall 2009

The text is **Calculus** (Sixth Edition) by Edwards and Penney

Lesson	Topic	Sec.	Exercises
1	Limits	2.3	85: 27, 61, 62, 63, 67, 70, 71
2	Riemann Sums	5.4	306: 4, 6, 13, 20, 33, 46, 47, 52, 53, 55
3	Evaluation of Integrals	5.5	316: 15, 25, 31, 36-43, 47, 54, 60, 61
4	Fundamental Theorem	5.6	325: 3, 11, 16, 20, 24, 45, 47, 49, 55, 56, 59, 61, 65, 67
5	Substitution	5.7	333: 3, 7, 16, 19, 33, 35, 36, 43, 45, 47, 49, 54, 67
6	Numerical Integration	5.9	357: 1, 2, 6, 21a, 23a, 24a, 25a, 26, 27
7	Riemann Sum Approxs	6.1	374: 2, 5, 8, 13, 14, 17, 18, 25, 29, 35, 39, 45, 46
8	Volumes by Cross Section	6.2	384: 2, 3, 13, 16, 22, 25, 36, 38, 39, 41, 42, 49, 53a
9	Arcs and Surfaces	6.4	404: 5, 6, 11, 12, 14, 15, 21, 24, 27, 30, 32, 40-42
10	Force and Work	6.5	413: 2, 3, 10-12, 16a, 17-21, 25, 26, 28, 30
	Review		362: 44-46, 48, 71, 73, 77; 424: 10, 11, 19, 23-25, 32, 34
11	Nat. Log as an Integral	7.4	465: 1, 2, 5, 9, 22, 25, 26, 40
12	Growth and Decay	9.1	556: 22, 23, 24, 26, 27, 28, 35, 36, 38
13	Separable DE's	9.3	574: 1, 17, 19, 32, 38, 40; 619: 32, 47
14	Inverse Trig Functions	7.5	475: 1, 3, 4, 6-9, 27, 32, 34, 35, 41-45, 50, 52, 53, 55
15	Hyperbolic Functions	7.6	483: 1, 12, 15, 16, 19, 21, 27, 28, 45, 46, 53, 54, 55, 56bc, 59, 62
16	Integration by Parts	8.3	499: 1, 4, 6, 8-10, 13, 20, 22, 24, 25, 48, 49, 51, 54, 55, 62
17	Trig Integrals	8.4	507: 1, 4, 5, 8, 12, 13, 21, 25, 28, 30, 34, 38, 44, 56, 57, 59, 62
18	Partial Fractions	8.5	514: 1, 5, 6, 10, 25, 32, 37, 38; 595/15, 16
19	Trig Substitution	8.6	519: 1, 4, 7, 29, 37-39, 47, 54
20	Integrals with Quadratics	8.7	524: 1, 3, 4, 5, 6, 21, 35, 46
21	Indeterminate Forms	7.2-3	448: 1, 4, 5-7, 14, 19, 27, 29, 43, 44, 61, 62; 453: 7, 14, 21-23, 26, 27, 44
22	Improper Integrals	8.8	537: 1, 3, 5, 9, 13, 16, 18, 25, 28, 30, 32, 35, 44, 50, 51, 52, 63, 72, 73, 74, 75, 76, 77
	Review		454: 29-31; 486: 19, 22, 28, 29, 32, 36, 39, 40, 42, 45, 48, 50, 54, 57, 58, 75, 79, 82, 83, 87, 89, 92; 540: 1-3, 6, 11, 16, 23, 27, 28, 34, 38, 47, 55, 59, 60, 67, 72, 82, 124, 133; 619: 35, 57
23	Infinite Sequences	11.1-2	689: 1-9, 11-13, 16, 18, 24, 25, 27-29, 31, 33, 35, 37, 39, 51, 53, 55, 56, 58, 59
24	Infinite Series	11.3	699: 1-4, 7, 9-11, 14, 16-18, 20, 33, 35, 41, 45, 47, 50, 52, 55, 62, 69, 70
25	Taylor Series and Polys	11.4	713: 1-3, 5, 6, 10, 13, 14, 23, 24, 27-30, 33, 35, 36, 42, 44; and handout
26	Integral Test	11.5	720: 3, 4, 7, 13, 23, 24, 28, 30, 31, 37, 49
27	Comparison Tests	11.6	727: 1-6, 10-13, 15-17, 21-23, 28, 34, 35, 46, 48-50, 52
28	Alternating Series	11.7	735: 1, 3, 4, 5, 7-9, 15, 17-19, 45, 51, 52, 54, 57
29	Ratio and Root Tests	11.7	735: 20, 23, 25, 28, 29, 31-33, 35, 36, 39, 42, 59
30	Power Series	11.8	748: 3-6, 14, 16, 17, 19, 21, 31-33, 38, 41, 44, 47, 49-52, 55, 66
31	Power Series Comps	11.9	756: 1, 3, 4, 6, 13, 16, 20, 21, 24, 27, 28, 31, 33, 34, 36, 49, 50
32	Series Sols of DE's	11.10	766: 3, 5, 9, 13, 17, 21
	Review		767: 2, 4, 8, 10, 14, 15, 16, 18, 20, 24, 28, 30-33, 38, 40, 44, 47, 53, 55, 60