

Outline and review problems for Midterm II

MATH 175, Fall 2014

Briggs & Cochran

1. Using trigonometric substitution to find integrals.
8.3 #9, 13, 23, 25, 31, 33, 43, 49
2. Use partial fractions to find integrals.
8.4 #11, 13, 19, 21, 23, 32, 35, 51, 57, 71
3. More on substitution.
5.5 #29, 31, 43
8.4 #56, 61
4. Approximating a definite integral using numerical integration techniques (Mid-point, Trapezoidal, Simpson's, error estimates).
8.6 #11 [n = 4], 15 [n = 4], 21 [n = 4], p. 512, #25a
5. Determine if an improper integral is convergent or divergent: using proper notation is important
8.7 #7, 9, 11, 13, 15, 17, 27, 31, 33, 35
6. Solve a first order separable differential equation.
8.8 #11, 13, 19, 23, 25, 29, 31
7. Sequences (limits, convergence and divergence)
9.1 #9, 11, 13, 15, 17, 19, 21, 23, 25, 27
9.2 #9 - 21, 35 - 45 odd
8. Extra:
Chapter 8 Review #11, 13, 15, 17, 19, 33, 35, 37