

Math 141 homework assignments

Calculus ETF 6th edition Larson Hostetler Edwards

The exercises that follow are suggested and may or may not be identical to those assigned in class on a day by day basis. However, they still are a solid representation of the topics, ideas, procedures, etc. covered in the course.

Chapter 7 APPLICATIONS OF INTEGRATION

Review

8.1 Basic Integration Rules #5-13 odd, 15-25 odd, 27-39 odd, 41-51 odd, 57-63 odd

7.1 Area of a Region Between Two Curves #1,3,5,17,23,25,27,31,33,35,37,39,43,55,61

7.2 Volume: The Disc Method #1,3,5,7,9,11,13,15,19,25,33,37,63,71,72

7.3 Volume: The Shell Method #1,3,7,11,13,15,17,19,23,25,29,43

7.4 Arc Length and Surfaces of Revolution #3,5,11,13,21,37,41,43,45

Chapter 8 INTEGRATION TECHNIQUES, L'HOPITAL'S RULE, AND IMPROPER INTEGRALS

8.2 Integration By Parts #11,15,17,21,25,27,31,35,39,41,49,51,55,57,83 a-c

8.3 Trigonometric Integrals #5,9,13,25,27,33,35,71,73,75

8.4 Trigonometric Substitution #5,7,9,11,13,15,21,23,27,29,37,43,45,47

8.5 Partial Fractions #7,11,17,19,43

8.6 Integration by Tables and Other Integration Techniques #1-15 odd

8.7 Indeterminate Forms and L'Hopital's Rule #5,9,15,23,29,33,43,45,49

8.8 Improper Integrals #9,11,13,17,23,29,33,41,43,67,69,71

Chapter 9 INFINITE SERIES

9.1 Sequences #1-7,11,13,17-20,21-24,25-28,29-43 odd, 45-51 odd

9.2 Series and Convergence #1,3,5,7,9,11,13,15,17,25-32,41-49 odd

9.3 The Integral Test and p -Series #3-21 odd, 23-30, 33

9.4 Comparisons of Series #3-21 odd, 23-30

9.5 Alternating Series #5-21 odd, 37-49 odd, 71-80

9.6 The Ratio and Root Tests #13-33 odd, 35-49 odd, 51-67 odd, 69-71,87-92

9.7 Taylor Polynomials and Approximations #13-29 odd, 37-40

9.8 Power Series #11-31 odd, 45-48,59-63 odd

9.9 Representation of Functions by Power Series #5,7,9,11,13,15,17,19,21,23

9.10 Taylor and Maclaurin Series #1,3,5,7,9,13,27,29,31,33,67,71

Chapter 10 CONICS, PARAMETRIC EQUATIONS, AND POLAR COORDINATES

10.1 Conics and Calculus #1-6,7,11,13,15,17,23,27,29,31,37,39,41,43,45,51-58

10.2 Plane Curves and Parametric Equations #1,5,11,13,15,17,19,21,25,29,31,33,37,41,43,45,47

10.3 Parametric Equations and Calculus #5,9,11,13,17,19,21,23,25,29,33,35,37,47,4765,67

10.4 Polar Coordinates and Polar Graphs #1-7 odd,11,15,23,27,29,31,33,39,43,59,65,67,77,81

10.5 Area and Arc Length in Polar Coordinates #5,7,11,13,17

10.6 Polar Equations of Conics #7,13,15,19

Chapter 13 FUNCTIONS OF SEVERAL VARIABLES

13.1 Introduction to Functions of Several Variables #7,9,11,13,17

13.2 Limits and Continuity # 9,11,13,17,21

13.3 Partial Derivatives #7,9,11,13,17,21,27,33