## CONTENTS

Introduction	iv
Chapter 1 – Derivatives of Polynomials	5
Chapter 2 – The Chain Rule, Product Rule, and Quotient Rule	11
Chapter 3 – Derivatives of Trig Functions	17
Chapter 4 – Derivatives of Exponentials	23
Chapter 5 – Derivatives of Logarithms	27
Chapter 6 – Second Derivatives	31
Chapter 7 – Extreme Values	35
Chapter 8 – Limits and l'Hôpital's Rule	39
Chapter 9 - Integrals of Polynomials	43
Chapter 10 – Definite Integrals	49
Chapter 11 – Integrals of Trig Functions	53
Chapter 12 – Integrals of Exponentials and Logarithms	55
Chapter 13 – Integration by Polynomial Substitution	57
Chapter 14 – Integration by Trigonometric Substitution	65
Chapter 15 – Integration by Parts	73
Chapter 16 - Multiple Integrals	79
Solutions	85