

Chapter 3 Homework

3.1 The Derivative

1 3 5 9 11-23 25 29 33 35 37-40 all 41 43 45 47 53 57 59 65 73,75 , 89 91

3.2 Basic Differentiation Rules

1-55 odd 57 59 61 63 73

3.3 The Product and Quotient Rules

1-57 odd 59 61 63 65 67-71 73 75 77 79 81 83 89 91 97-103 105 107 117 119 121 133 135

3.4 The Chain Rule

1-8 all 9-35 37 41 45 47 48 49 55-113 all 115 119 123-137 151 155 174 175

3.5 Implicit Differentiation

1-19 **23 25** 25-33 35-38 39-45 49 51-55 57 59 65-73 75 77

3.6 Derivatives of Inverse Functions

1-49 odd 57 59

3.7 Related Rates

1-7 12 13 15 17 19 23 **25** 27 31 33 37 43 47

3.8 Newton's Method

1-15 17 21 23 27 33 35 37