

MATH 2250 Extra Practice – Unit 1

Chapter 2: Limits and Continuity

2.1 Rates of Change and Tangents to Curves

Problems: 2.1 #1, 3, 9, 10, 13, 15, 16, 19

Advanced Exercises (p.112): #4, 5, 6

2.2 Limit of a Function and Limit Laws

Problems: 2.2 #1, 2, 3, 5, 9, 12, 17, 21, 23, 28, 29, 30, 38, 45, 53, 64, 65, 81

2.4 One-Sided Limits

Problems: 2.4 #1, 2, 7, 10, 12, 17, 19, 20, 21, 23, 25, 27, 36, 39, 45, 46

2.5 Continuity

Problems: 2.5 #1-10, 11, 12, 13, 19, 25, 39, 40, 43, 54, 55, 66

2.6 Limits Involving Infinity; Asymptotes of Graphs

Problems: 2.6 #1, 13, 17, 37, 39, 45, 49, 50, 53, 54, 55, 59, 67, 69, 72, 73, 74, 81, 86

Advanced Exercises (p. 112): 14, 21

Chapter 3: Derivatives

3.1 Tangents and the Derivative at a Point

Problems: 3.1 # 1, 5, 7, 11, 13, 18, 25, 29-32

3.2 The Derivative as a Function

Problems: 3.2 #1, 3, 6, 7, 9, 10, 13, 17, 27-31, 37, 45, 47, 53, 54