

Math 121 Chapter 2 Actual Calculus!

2.1 Limits and Continuity

- * limits are the core concept of calculus, like learning the alphabet so you can read.

2.2 Rates of Change, Slopes, and Derivatives

- * Using what we know about lines and limits to study curves

2.3 Some differentiation Formulas

- * Shortcuts to derivatives

2.4 Product & Quotient Rules

- * Calculating more complicated derivatives ($\times, \div$)

2.5 Higher-Order Derivatives

- * Taking derivatives of derivatives

2.6 Chain Rule

- * Calculating even more complicated derivatives (composition)

2.7 Non-differentiable functions

- * Derivatives can fail to exist.