Test 1 Outline

1.4  – Slopes of secant lines to functions
    – Average rates of change of functions

1.5  – Understanding concept of limits
    – Finding limits using graphs
    – Finding limits using tables of data
    – One-sided limits
    – Infinite limits
    – Ways a limit might fail to exist

1.6  – Limit laws (memorize!)
    – Methods for handling limits that produce 0 in the denominator of a fraction
    – Using Squeeze Theorem to evaluate limits

1.8  – Continuity (know conditions for a function to be continuous at a point!)
    – Using continuity to evaluate limits of trig functions, rational functions, etc. (Theorem 7)
    – Intermediate Value Theorem

2.1  – Calculating derivative at a point $x = a$
    – Understanding the meaning of the derivative

2.2  – Using limit definition to find the derivative of $f(x)$
    – Differentiability
    – Ways a function might fail to be differentiable

2.3  – Differentiation rules (memorize!)

2.4  – Differentiation rules (memorize!)
    – Higher-order derivatives

2.5  – Chain Rule