**Things to Study for the Chapter 3 Test**

* Equation of tangent line
* Antiderivatives (Integrals)
* Estimate a point using linearization
* When does limit exist on piecewise function?
* When does derivative exist on piecewise function?
* Chain rule
* Y’(1)
* Value of derivative at a point like (1,0)
* Position, velocity and acceleration functions and their relationships
* Slope field identification from derivative equation
* Perpendicular tangents (how can you tell?)
* Quotient rule
* Product rule
* Can you do product rule, chain rule, and quotient rule from tables or graphs?
* How to identify derivative from a graph
* How to find a zero derivative point on a graph
* Implicit derivative
* Drawing slope field
* Solving separable differential equation
* Finding points on a graph that have a specific derivative, from an equation
* How would you know if the slope of the tangent is horizontal?
* How to tell when a particle is moving left/right, speeding up, slowing down
* Instantaneous velocity vs. Average velocity