Chapter 2 Review

You must be able to or know:

1. **Limits (Definition of a limit)**
2. **Definition of Differentiability (Relationship between differentiability and continuity)**
3. **Definition of a Derivative (Using alternate form of a Derivative)**
4. **Finding the slope of tangency (Using it to find equations of tangent and normal lines)**
5. **Standard Equation of the position function (Relationship between position, velocity, and acceleration)**
6. **Instantaneous Velocity vs. Average Velocity**
7. **Trig Derivatives**
8. **Implicit Differentiation**
9. **Related rate problems**
10. **Graphical Relationship between f(x) and f'(x)**
11. **Taking the derivative: Recognizing power rule, product rule, quotient rule, and most important, the chain rule.**

Suggested Problems:

p.153 #'s 1-7 odd, 8, 9, 11, 13, 15-33 mx3, 34, 35, 39, 58

p. 154 # 42-57 mx3, 66-78 mx3, 89, 99, 105, 107

And ANY OTHER EVEN ones from the sections we have covered.