Chapter 4 Review

You must be able to or know:

1. **Find definite and indefinite integrals w/ and w/o u-substitution**
2. **What the relationship is between the definite integral and the function in the integrand.**
3. **Given f'(x) and a point, come up with f(x).**
4. **Relationship between distance, velocity, and acceleration.**
5. **Riemann Sum using a finite number of rectangles**
6. **Using geometric formulas to find area**
7. **Properties of Integrals**
8. **Average Value for integrals**
9. **Mean Value Theorem for integrals**
10. **Fundamental Theorems of Calculus**
11. **Trig derivatives**
12. **Be able to find the integral using your calculator.**

Suggested Problems:

p. 309 #'s 1-11 odd, 25, 33, 37, 39-45 odd, 53-69 odd, and ANY OTHER EVEN ones from the sections we have covered.