Chapter 3 Review

You must be able to or know:

1. Rolle's Theorem, Extreme Value Theorem, and Mean Value Theorem
2. Finding absolute extrema on a closed interval (check endpoints)
3. Find intervals where f(x) is increasing / decreasing
4. Find intervals where f(x) is concave up / down
5. Know what it means when the 1st derivative is positive or negative vs. when it is increasing or decreasing
6. Find critical numbers/points, points of inflection, horizontal and vertical asymptotes, zero's, and y intercepts
7. Find the limit as x approaches infinity
8. The First and Second Derivative Tests and when/how they can be used
9. Maximization / Minimization problems
10. Newton's Method
11. Make a detailed graph using the different techniques of this chapter

Suggested Problems:

Day 1 p.242 #'s 3-19 odd, 23, 25

Day 2 p. 242 #'s 29, 31, 37, 39, 45, 49, 55-61odd, 71, 75, 79, 81