Homework Assignment 3.

Given Oct 07, due Oct 19.

1. Section 3.5: problems 31-40, 61-70. (No, it's not a joke. Practice is the only way to learn.)

2. Section 3.6: problems 22, 26, 34, 38, 44, 58.

3. Section 3.7: problems 9, 10, 16, 17, 20 (also give an estimate of the error), 34, 44, 51.

4. Make sure you understand the meaning of equations (10), (11) on page 184. Then read Appendix 3 (proof of chain rule).

5. Read page 190 about the limitation of Newton's method. (i.e. When does it work and not work?)

6. Section 3.8: problems 11, 12.

7. Section 3.8: problems 13, 22. Just write the formula, need not get the numerical values.

8. Section 3.8: Read problem 24.

9. Chap 3: problem 90. Do the same for $\frac{1}{1+\sin(2x)}$.