Notes:

- Read Course Information: Section 6 (Miscellaneous) and Section 8 (Academic Dishonesty or Misconduct).

- When you are giving a construction, example, etc., provide a justification with your argument. Your solutions to numerical problems must contain the derivation of your answers. In all of your presentations, strive for correctness, completeness, and clarity. When in doubt about the assumptions of problems, the interpretations of wording, etc., consult the instructor.

- You should strive to complete all problems assigned, and a subset of them will be graded.

1. Read the notes above carefully.

2. Do [Cha10] Chapter 1, Section 1.4, exercises 1, 4, and 5(a).

3. Do [Cha10] Chapter 2, Section 2.1, exercises 1 and 4.


5. In [Cha10] Chapter 2, section 2.2: Machine Epsilon, it is stated that “The maximum relative error made in representing any mathematical real number in a given floating point number system is, assuming overflow and underflow do not occur, no greater in magnitude than machine epsilon.”

   Is the statement correct? Justify your answer.

6. ... More problem(s) will be given in later version.