Directions. Please work on the problems below. Your solutions must begin with a clear statement of the problem, followed by a clear, legible solution (or partial progress towards a solution). Please refer to the syllabus for the policy on grading and late homework.

Collaboration. I encourage you to discuss the homework problems with your classmates. However, each student must submit his or her own homework solutions. In particular, you are welcome to discuss any of the problems online on our Google Groups discussion forum.

Current Reading. You should have reviewed chapter 9, read sections 10.1 and 10.2 in chapter 10, and read 11.1 - 11.6 in chapter 11. Please read section 11.7 for Monday and section 11.8 for Wednesday.

1. Solve exercises # 2, 10, 18, and 20 in section 11.6. I recommend solving these problems before Monday’s lecture. The quiz on Tuesday will ask you to solve problems similar to these.

2. Solve exercise # 28, 32, 36, and 48 in section 11.6. These problems are more difficult than the first group. These problems deal with linear approximation, differentials, and estimating error.