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, 11.1 - 11.8 in chapter 11, and 12.1 - 12.3. You should be reading and re-reading sections 12.4, 12.5, 12.7, and 12.8 presently. We will omit 12.6 from the course.

1. Please solve exercises # 18, 26, and 28 in section 12.4 (polar coordinates).

2. Please solve exercises # 6, 22, 24, and 32 in section 12.5 (triple integrals).

3. Please solve exercises # 12, 14, 16, 32, 44, and 52 in section 12.7 (cylindrical and spherical coordinates).