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.

1. Please solve exercises # 2, 4, 10, 14, 20 (for # 20 also describe the domain of the vector field and sketch this domain), and 29 in Section 13.3.

2. Please solve exercises # 4, 6, 8, 12, 18, 20, and 31 in Section 13.4.