Homework #13: Due Wednesday, May 8, at 4 PM

Problems are taken from the exercises in the Edwards & Penney textbook. Read through the text before working on the problems, and please make use of office hours provided by the teaching staff or the Math Learning Center if you find them difficult. Submit your homework either to your instructor during lecture or to your TA during recitation or at their office. Late homework assignments will not be accepted.

Problems

Write up these problems neatly and submit them by the due date above. Show your work where appropriate for full credit. Answers without justification may receive no credit, particularly if they are provided in the textbook or student solution guide. If your homework solutions require multiple pages, please staple them together.

- Section 6.1: 2, 4, 6, 8

- Section 6.2: 2, 8, 14, 24, 30. Graphing directions:

  * Omit the parts asking for graphical verification via a computer system or graphing calculator.

  * On #14, find eigenvectors for the system and use them to make an approximate sketch of some solution curves around the critical point you find.