

Comments on Maple Problem Set F

Be sure to read the instructions for the problems carefully and do all parts. You must use Maple on these problems. Do not use pplane5 to do them.

Problem 1

- (iii) is from Section 7.8 of Boyce and diPrima.
- In part c), make sure to plot enough trajectories.
- Be sure to indicate the direction of increasing t on the trajectories.
- Be sure to label any real eigenvectors.
- It is OK to solve the equations again in c) if that is more convenient than using your solution from a) or b).

Problem 4

- In part b) be sure to plot on a large enough time interval.
 - You should have at least two plots for each system.
 - You can tell the direction of increasing t by changing one end point of the time interval.
- Indicate the direction of increasing t on the trajectories.