

Differential Equations – Homework 32

Professor:

Dr. Joanna Bieri

joanna_bieri@redlands.edu

Office Hours:

Homework 32

Make a personal “cheat sheet” of the information in Theorem 2 (Fig 6.2.12).

Directions: Do the following book problems

Section 6.2 Problems 1, 3, 7, 11-13 (ALL), 19, 29, 31

Other Notes:

1. Problems 1-4 and 11-14 are linear systems that you are predicting fixed point and stability ONLY based on the eigenvalues. No need to print the phase planes here, just use them to verify your solution.
2. Problems 19, 29, and 31 you must use the Jacobian to first linearize the system.