

MA573 - Fall 2018 Homework 6 - Due November 9th

Strogatz Problems

Section 6.1: – Do these without aid of a computer: 4,7

- Pick two of the following, use the code posted on the course website (or write your own code) to plot the phase portrait: 8,9, 10,11
- 14 (See the discussion on pg. 158 for more info on stable manifolds)

Section 6.3:

- 4 and also plot a computer-generated phase portrait and compare to your approximate sketch

Section 6.4:

–1,2