

MA573 - Fall 2022 Homework 8 - Due November 4th

Hirsh-Smale-Devaney Problems

Chapter 7: Do parts 1 - 5 of “Exploration: Numerical Methods and Chaos” on pg. 156 - 157 of the text. For part 1 you can either try to solve the equation explicitly, or use the slope field to conclude quantitative behaviors of the solution with which you can compare your numerical results with. Use the Euler.m example provided previously, or code up the algorithm yourself for the rest of the exploration

Chapter 8: 1(i,ii,iv,v),

Bonus problem: 11 (4 pts of extra credit)

Optional problems (these will not be graded):

Chapter 6: 14

Chapter 8: 2