

# Homework Three

## Chaos and Fractals

### College of the Atlantic

Due Friday, September 29, 2023

There are two parts to this assignment.

**Part 1: WeBWorK.** Do Homework 03 which you will find on your [WeBWorK page](#). I recommend doing the WeBWorK part of the homework first. This will enable you to benefit from WeBWorK's instant, if not necessarily friendly, feedback before you do part two.

**Part 2: Problems from the Textbook.** Here are some instructions for how to submit this part of the assignment.

- Do the problems by hand using pencil (or pen) and paper. There is no need to type of this assignment.
- Make a pdf scan of your work using genius scan or some similar scanning app. Please make the homework into a single pdf, not multiple pdfs.
- Submit the assignment on google classroom. Please don't email it to me. (Between my two classes I will be receiving around 55 assignments a week. Keeping track of them all in email is challenging.)

There are three textbook problems this week:

- Chapter 9, problem 9.5
- Chapter 9, problem 9.7
- Chapter 11, problem 1
- *Optional:* Chapter 7, problem 9–11. These problems have you investigate fixed points and cycles for the logistic equation using a modest amount of algebra.