

# Homework Five

## Chaos and Fractals

### College of the Atlantic

Due Friday 4 February, 2022<sup>1</sup>

There is are two parts to this assignment. WeBWorK has returned.

**Part 1: WeBWorK.** Do Homework 05 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 45 assignments a week. Keeping track of them all in email is challenging.)
- **If you want, do these problems in pairs.** If you do work in pairs, please submit only one set of solutions for the two of you. If you work with a friend and your friend submits the work, please submit an empty assignment and add a comment letting me know who you worked with. Thanks.

Here are the textbook problems, all from Chapter 16. The problems are listed in non-numerical order on purpose. I think it might make the most sense to do the problems in the order below, not in numerical order.

- Chapter 16, problem 5
- Chapter 16, problem 6
- Chapter 16, problem 9
- Chapter 16, problem 3
- Chapter 16, problem 7
- Chapter 16, problem 8. **Optional.** Fun. Challenging. Mindbending.

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<sup>1</sup>If you need more time, that's ok. Just let me know. Thanks!