

Homework Two

Differential Equations

College of the Atlantic

Target Date: Friday, Jan 23, 2026

Here are some instructions for how to submit the assignment.

- Do the problems by hand using pencil (or pen) and paper. There is no need to type this assignment.
- If you've made a plot in google colab, you can just share the colab notebook with me.
- If you like working on a tablet, go for it.
- 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. And please please please not a png file.
- Submit the assignment on google classroom. Please don't email it to me. Thanks.

All problems are from the [textbook](#).

1. Exercise 6.1 (We pretty much did this in class on Monday)
2. Exercise 6.2 (We started this in class on Monday)
3. Exercise 6.3
4. **Optional** Exercise 6.4. Involves programming
5. Short¹ reflections:
 - (a) Did you work with any other humans on this assignment? (It's great if you did! Working with other humans is awesome.) If so, who, and how did you collaborate?
 - (b) GenAI: did you use it to help with this assignment? (It's ok if you did! GenAI is useful, sometimes, especially for programming. But it's important that what you turn in represents your understanding.) If so, how did you use it?
 - (c) Any other comments or reflections on this assignment?

The optional problem 6.4 is strongly recommended for those of you who took Intro to CS last term. This problem is a great way to practice program design and syntax while deepening your understanding of Euler's method. Give it a try.

If you want, here is a [google colab notebook](#) that can use as a template for exercises 6.2 and 6.3.

¹One or two sentences is plenty!