

Homework Seven

Calculus II

College of the Atlantic

Due Friday, May 21-ish, 2021

There are two parts to this assignment.

Part 1: Edfinity. There are no Edfinity problems this week.

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 30 assignments a week. Keeping track of them all in email is challenging.)

Chapter 8.2:

1. 12
2. 13
3. 32
4. 33
5. 34

Chapter 8.4:

1. 12

Chapter 8.5:

1. Consider a rectangular water tank that has a length of 4 meters, a width of 5 meters, and a height of 6 meters. If the tank is half full, how much work does it take to pump all the water out of the tank over the top?
2. You need use a rope to lift a 20 kg box of tofu on top of a building. The rope has a density of 0.5 kg/m. How much work does it take to lift the box and the rope to the roof?