Homework Five Thermodynamics College of the Atlantic

Due Friday, April 30, 2021

There is one part to this assignment.

Part 1: 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 up 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.
- If you want to do one or more of these problems one or two other people and hand in only one write-up, go for it.
- 1. 2.21 (Use Wolframalpha or desmos or whatever you're used to using.)
- 2. 2.26 (Be sure you explain how you arrived at your answer.)
- 3. 2.17 (**Optional.** In this problem you'll determine an expression for the multiplicity of an Einstin solid for $q \ll N$. Good practice using Sterling's approximation and the Taylor expansion for the natural log.)