

AME 20231

Homework 2

Due: Friday, 25 January 2013, in class

1. 2.46, let instead $P_{atm} = 120 \text{ kPa}$.
2. 2.69, let the air density instead be 1.1 kg/m^3 .
3. 2.83, instead let the altitude be $10,000 \text{ m}$.
4. 2.85
5. 2.114; Use *any* language or application with which you are familiar (C, C++, NQC, Matlab, Maple, Mathematica, Fortran, Ada, Cobol, Pascal, Basic,...). Post your source code on your web page in a prominent place so the grader can download it and check if it runs. Write your code so that it can handle an *arbitrary* temperature increment, not just a temperature increment of 10 degrees. This will likely require that you use a loop in your program. Paste a single computer-generated sample plot of your output to your homework. Be sure to label your axes and include units on your axes. Be sure that the plot is elegantly prepared.