

Thermodynamics
Homework Six
Due Friday May 5, 2016

1. Problem 1.50
2. Problem 1.51
3. Problem 4.2
4. Problem 4.3
5. Problem 4.6. This is a challenging, multi-step problem. Do the best with it that you can.
6. Problem 4.8
7. Problem 4.13. The last part of the problem asks for a numerical example. Here is one way to put numbers to this problem. Suppose that you want the temperature inside your house to be 25. When it is 30 degrees outside, your air conditioner costs \$1/hr to run. If it was 35 outside and you wanted to it be 25 inside, how much would your air conditioner cost you per hour?