Homework # 6

Due 11 November 2013

Problems from the text *Statistical Mechanics for Thermophysical Property Calculations* by Rowley.

1. 3.16

2. 3.18. Write a Matlab program to perform the calculations. Compare your answer to data from the NIST web-book [webbook.nist.gov](http://webbook.nist.gov) for NH\textsubscript{3} in an ideal gas state. Also compare your calculation and data from the webbook from 300 to 400 K in increments of 5 K. Make a plot of the data.