Homework 21: The Boltzmann Factor

6.1 (pg. 224) Excel should work fine if you don’t want to use MATLAB, Maple, etc. Attach your plots/codes after this page. Please write your own code and hand in your own copy. Put your discussion here.

6.2 (pg. 224) Don’t let the word prove scare you. The key point is that you are looking at the probability for a particular energy level rather than a single state.

6.3 (pg. 225) Instead of drawing the graph, use MATLAB, Excel, Maple, etc. to plot it properly. Plot using a dimensionless variable—don’t plug in the numerical value of $k$, etc. Attach your plots/code after those for problem 6.1.
6.5 (pg. 225)

6.6 (pg. 227)
6.12 (pg. 228)