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**PROBLEM SET 2**

**Reading:** Chapter 3 in Reif.

**Problems:** Do all problems analytically by hand except where noted.

1. Reif 1.16
2. Reif 2.4 (parts a and b only)
3. Reif 2.7
4. Reif 2.11
5. Reif 3.1
6. Reif 3.2 (For part (c) you can use Mathematica to plot the magnetization  $M$  vs.  $\mu H/kT$ .  
Or you can do this by hand.)