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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
3. Reif 2.7
4. Reif 2.11
5. Reif 3.1
6. Reif 3.2 (For part (c) use Mathematica to plot the magnetization  $M$  vs.  $\mu H/kT$ .)