Homework #10   March 9, 2016

Problems (HH= Hook & Hall)

#1 HH 4.4

#2 HH 5.2

#3 HH 5.3

#4 Verify Table 7.2 (Here L,S, J are given in the language of Fig 7.2). Check the values of p given in column 5- by computing the Lande g value.

#5 Check that the Brillouin function (7.16) reduces to tanh() for spin half- as we expect to. (Requires using addition formulas : Sinh[2 x]= 2 Sinh[x] Cosh[x]; Cosh[2 x] =2 Cosh[x]^2-1 etc)