







Using - Eigh = Eigh Ezik = 8,8,-8,8, We have F. = m 2 Bk [S-Sn - 82 Sn.] = m, 2, Bk - m; 2, Bk $F_{:} = 0$; $(\vec{m} \cdot \vec{B}) \vee \nabla \cdot B = 0$ From this we see that the potential energy of a magnetic dipole is U = - m.B Finally we may take the derivative with respect to! theta (or go through another tortuous derivation), to show along the Same lines that t = R x B i.e. that the magnetic moment tends to align itsself @ the field