Classical Electrodynamics

Problem set 7
Radiation of light

1. Find the time averaged angular distribution and total power of radiation of a dipole $p$, rotating
   with the angular velocity $\Omega$ in some plane. (10 points)

2. Find polarization of magnetic field in the direction perpendicular to the plane of the dipole for the geometry of Prob. 1. (7 points)

3. Solve Prob. 1 for rotating magnetic dipole $m$ (3 points).