## Set 7-due 20 October

1) Jackson 4.9. [20 points] (a)-10 points, (b) -4 points, (c) -6 points.
2) Jackson 4.13 [15 points]
3) Jackson 4.10 [10 points].
4) [15 points] A sphere of radius $R$ is made of a uniaxial dielectric with dielectric constant $\epsilon$ along two principal axes and dielectric constant $\epsilon_{3}$ along the third. The sphere is placed in a uniform electric field, with arbitrary orientation. Find the torque on the sphere.
