

From Griffiths: 3.28, 3.32

1. A charge of $-3q$ is uniformly distributed on the surface of a sphere of radius a that is centered at the origin. Two point charges, each $+q$, are located at $(a/2, 0, 0)$ and $(0, a/2, 0)$ respectively.
 - (a) Find the electric monopole and electric dipole moment of these charges.
 - (b) Write the expression of the electric field due to these moments.