

PHYS3122A Homework 8, due 10/30/2009 at 5pm

Problems:

1. Solve problems: 3.27, 3.29, 3.37, 3.39, 3.40
2. Four point charges with $q=1\text{C}$ each sit at the corner of a square of size 1m on the $z=0$ plane. Calculate the monopole, dipole, and quadrupole moments (with respect to the center of the square) and the electrostatic energy of this charge distribution.