

Assignment 5
PHGN361

Homework due March 3

1. Read sections 4.1.1 and 4.1.2 of Griffiths. Use the lecture notes for multipole expansion content.
2. A dipole rests at the origin with its dipole moment pointing in the z direction. Derive the electric field in cartesian coordinates from the dipole term in the expression for the potential.
3. problem 3.31, 3.34
4. 4.1, 4.2, 4.4