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. Problems: 3.31, 3.34
- 4. Problems: 4.1, 4.2, 4.4