

# **PHYS 301**

## **HOMEWORK #12**

Due : Monday, April 18, 2016

1. Problem 12.64, p. 679, part a and b (all parts of b); 10 pts for a), 5 pts for each subsection of b).
2. Problem 12.68, p. 680 all parts; 5 pts for each part.
3. Problem 12.72, p. 679
4. The figure in the accompanying link shows a linear electric quadrupole. Express the potential observed at O in terms of Legendre polynomials.