

10/9 – A couple review problems and a couple of new problems

These need to be done in this order. If you have already done some or all of 2.34 and 2.35, you may show me your work in your notebook and jump ahead. Otherwise, do them on the board!

1. Find the electric field inside and outside a solid sphere of radius R with charge q uniformly distributed throughout. Write your answer in terms of q , R , and the usual spherical coordinate r .
2. Find the electric potential inside and outside the same sphere as in the last problem.
3. Do Griffiths problem 2.34
4. Do Griffiths problem 2.35