

Physics 120 – Problem Set # 5

(due Friday, February 22)

1. Griffiths, problem 3.18.
2. Griffiths, problems 3.38. [Hint: First find $\phi(r, \theta)$ for $\theta = 0$ and $r > a$. Then compare this to the general solution of Laplace's equation.]
3. Griffiths, problem 3.40.
4. Griffiths, problem 3.43.
5. Griffiths, problem 4.13.
6. Griffiths, problem 4.16.