

PHYS 401: Electricity & Magnetism I
Due date: Wednesday, March 10, 2021

Problem set #5

1) Problem 2.52

Additional exercise: Make a contour plot of the potential $V(\vec{r})$ with at least 10 contours. You can set $\lambda/4\pi\epsilon_0 = 1$ for convenient plotting. You can use Maple, Mathematica, MatLab, or any other computer plotting software. Making the plot before part (b) may be helpful.

2) Problem 3.7

3) Problem 3.8

4) Problem 3.9

5) Problem 3.12