- 1. (4 pts) Problem 2.56 in Griffths (2.55 in 4th ed). Suppose an electric field ...
- 2. (4 pts) Problem 2.64 in Griffths (not in 4th ed). *Many programming languages* ... This problem requires you to run Mathematica. Rice provides free access to this program: [click here]. Please submit a printout of your notebook, showing your code and the plot outputs.
- 3. (6 pts) Problem 3.2 in Griffths (same in 4th ed). *In one sentence* ... ALSO: adapt your Mathematica notebook from Problem 2 to make a visualization of $\mathbf{E}(\mathbf{r})$ and $V(\mathbf{r})$ for this configuration.
- 4. (4 pts) Problem 3.3 in Griffths (same in 4th ed). Find the general ...
- 5. (10 pts) Problem 3.21 in Griffths (3.19 in 4th ed). The potential at the surface ...
- 6. (4 pts) Problem 3.38 in Griffths (3.36 in 4th ed). Show that the electric field ...
- 7. (8 pts) Problem 3.44 in Griffths (3.40 in 4th ed). Two long straight wires ...