

Name: _____ Date of Lab: _____

I. Questions

1. Equipotential lines are always drawn in uniform intervals (for example, 1V, 2V, 3V, 4V, or 20V, 40V, 60V, 80V). What does the distance (for example, in cm as drawn on the page) between any proper set of equipotential lines tell you about the magnitude of the electric field?

2. Estimate the magnitude of the electric field in between the two parallel lines. Show/explain your work using words and mathematics.

3. Estimate the strength of the electric field at the point halfway between the two point charges. Show/explain your work using words and mathematics.

4. How do you compute the potential difference between two points on a conductor?

5. How can you compute the magnitude of the electric field inside a conductor?