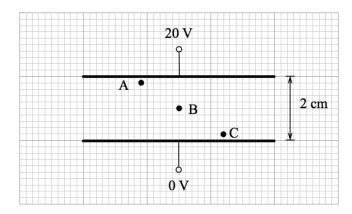
Physics II



- 1. Use lines with arrows in them to draw "field lines" around the charged metal plates shown above to represent the electric field they produce.
- 2. In the diagram above use dashed lines to draw equipotential lines at 5 V intervals between these plates.
- 3. Rank from strongest to weakest the strength of the electric field at the lettered points in the diagram above. Ties can be indicated with "equals" signs (=). Give an account of your reasoning.
- 4. Calculate an approximate value for the strength of the electric field at point ${\bf B}$.
- 5. Calculate the difference in potential, $V_C V_B$ between points **B** and **C**.
- 6. Calculate the change in potential energy that would occur if a particle carrying a charge of -2μ C is moved from the bottom plate to the top plate.

7. Plot a properly labeled graph of potential vs position from below the bottom plate to above the top plate on the set of axes provided.

