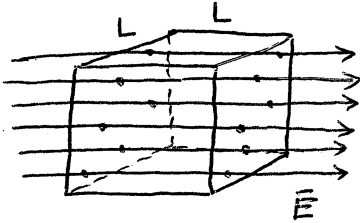


PHY 212 General Physics II - Electricity, Magnetism and Light
Summer 2007

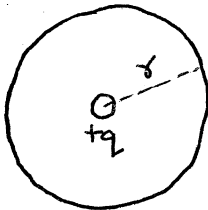
Quiz 2 Tuesday, July 10

Name:

1. (5 points) **Electric flux through a cube** Electric flux Φ is given by $\Phi = \int \mathbf{E} \cdot d\mathbf{A}$. Find the electric flux through the cube given below.



2. (5 points) **Electric flux through a sphere** Electric flux Φ is given by $\Phi = \int \mathbf{E} \cdot d\mathbf{A}$. Find the electric flux through the sphere given below. (It contains a charge $+q$.)



3. (5 points) Two oppositely charged plates are shown in the picture below. Draw the electric field lines.

