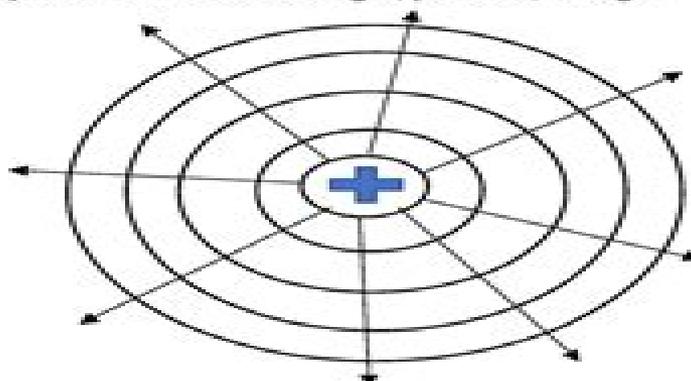




PRE-LAB QUESTIONS – LAB 19

1. How are electric potential and electric field similar? How are they different?
 - a. The relation between electric potential and an electric field is given as, $dV = -Edx$ or, $E = -dV/dx \rightarrow E = -\text{grad}V$
 - b. This is the similarity between the electric field and electric potential. The difference between electric field and electric potential is the electric field is a vector quantity. But, the electric potential is a scalar quantity. The electric potential for a point charge is $V = k \times Q/r$ so, the potential depends on V , Q and $1/r$. And, the electric field for a point charge is $E = K \times Q/r^2$ so, the electric field depends on E , Q and E , $1/r$.
2. Draw the equipotential lines for a single, positive, charge.



3. If you were to walk on an equipotential line, how would your electric potential change over time?
 - a. The potential is constant throughout the equipotential surface. Thus, the potential does not change as the time passes.
4. What does it mean when equipotential lines are closer together? What does it mean when they are farther apart?
 - a. Using the relation, $E = dV / dr$. Thus, closer to the equipotential lines, stronger will be electric field. And the electric field will be weak if the equipotential lines are far from each other.
5. What direction do electric fields travel?

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