Chapter 18 4-Minute Drill

Coulomb's Law $\frac{kQ_1Q_2}{r^2}$

Electric field of a point charge $\frac{kQ}{r^2}$

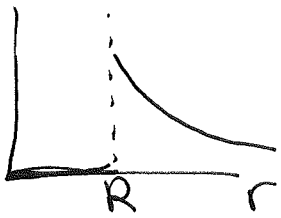
Force on a charge in an electric field qE

Acceleration of a charge in an electric field $\frac{qE}{m}$

Electric field inside a conductor 0

Direction of an electric at the surface of a conductor perpendicular

E versus r graph for a charged conducting sphere



Direction of the electric field due to a positive point charge radially outward

Direction of the electric field due to a negative point charge radially inward

Kinematic equation for the final velocity in terms of acceleration and time $v_f = v_0 + at$

Kinematic equation for final velocity in terms of acceleration and displacement $v_f^2 = v_0^2 + 2ax$

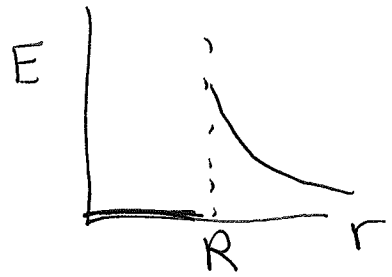
Chapter 18 4-Minute Drill - Take Two

Direction of the electric field due to a negative point charge radially inward

Electric field inside a conductor 0

Acceleration of a charge in an electric field $\frac{qE}{m}$

E versus r graph for a charged conducting sphere



Electric field of a point charge $\frac{kQ}{r^2}$

Direction of the electric field due to a positive point charge radially outward

Direction of an electric at the surface of a conductor perpendicular

Kinematic equation for the final velocity in terms of acceleration and time

$V_f = V_o + at$

Coulomb's Law $\frac{kQ_1Q_2}{r^2}$

Force on a charge in an electric field qE

Kinematic equation for final velocity in terms of acceleration and displacement

$V_f^2 = V_o^2 + 2ax$