

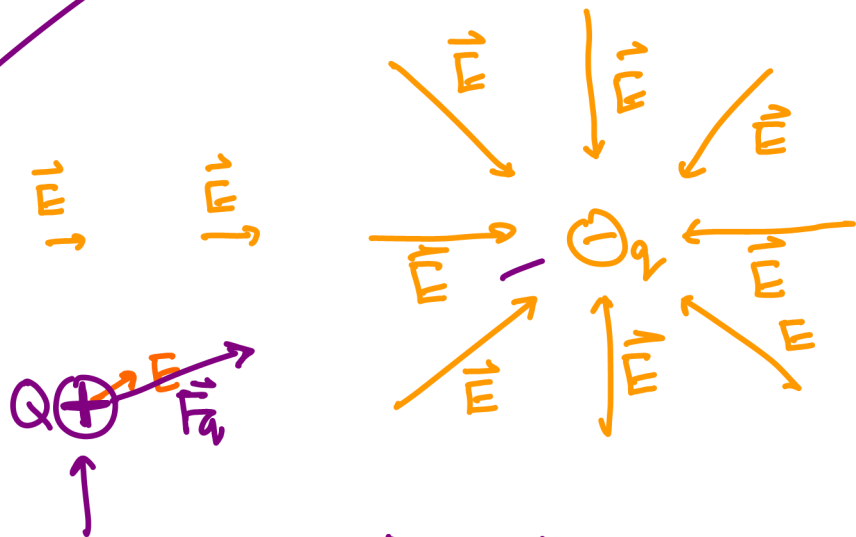
$\vec{F}_q = q\vec{E}$ (like $\vec{F}_g = m\vec{g}$)

if $q > 0$, \vec{F}_q, \vec{E} in the same direction
 if $q < 0$, \vec{F}_q, \vec{E} are in opposite direction

$$\vec{F}_q = \left(\frac{kQ}{r^2} \right) \cdot q$$

Same force, opposite direction.

$$\vec{F}_q = \left(\frac{kq}{r^2} \right) Q$$



Q is inside the electric \vec{E} created by q
 $\therefore Q$ experiences a force $\vec{F}_Q = Q\vec{E}$ $\leftarrow Q > 0 \therefore \vec{F}_Q, \vec{E}$ are in the same direction