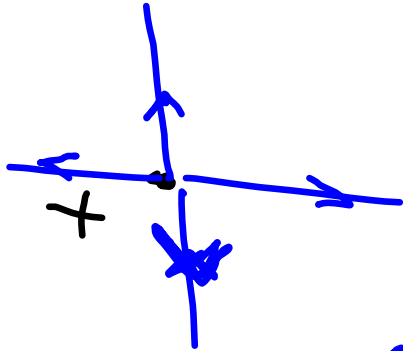


Ch 16

Electric Charge & Field



\vec{E} - field

\vec{E} - field

Pos & Pos
repel

Two '+' signs are shown. A blue arrow labeled 'F' points away from the right '+' sign towards the left '+' sign, indicating a repulsive force.

$$\vec{E} = \frac{1}{4\pi\epsilon_0} \frac{q \cdot \hat{r}}{r^2}$$

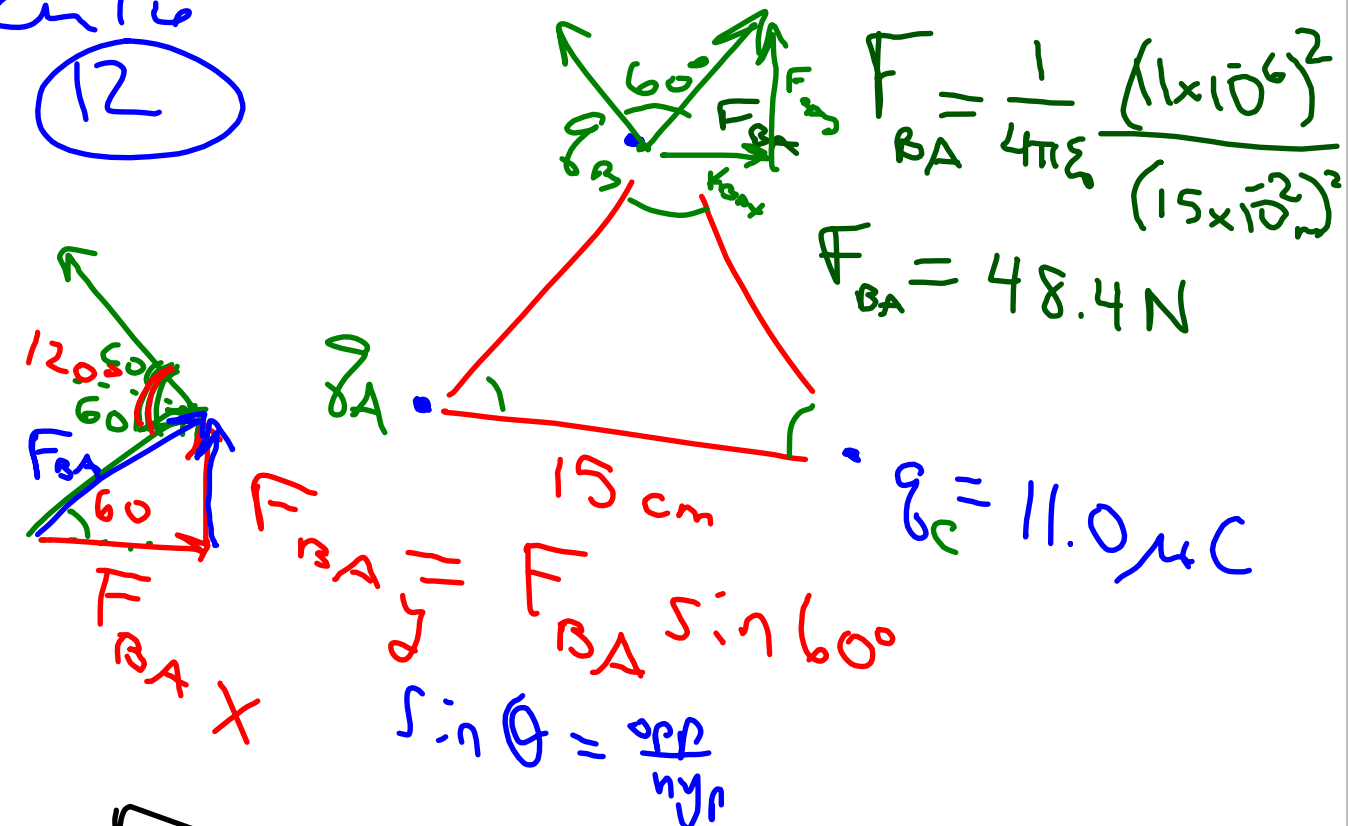
$$\vec{E} = \vec{E}$$

not source

$$\vec{E} = \frac{1}{4\pi\epsilon_0} \frac{q_{source}}{r^2}$$



Unit 6
12



$$F_D = 2(48.4 \text{ N}) \sin 60^\circ = 167 \text{ N} \uparrow$$

$$F_D = 167 \text{ N} \searrow 45^\circ$$

$$F_C = 167 \text{ N} \swarrow 45^\circ$$

