

COULOMB'S LAW: $F = k_e \frac{q_1 q_2}{r^2}$ $k_e = 8.99 \cdot 10^9 \frac{Nm^2}{C^2}$



GIVEN

$$\begin{aligned} r &= 1 \text{ cm} \\ q_A &= 1 \text{ nC} \\ q_B &= 2 \text{ nC} \\ q_C &= 2 \text{ nC} \end{aligned}$$

CONVERSIONS

$$\left. \begin{aligned} 10^{-2} \frac{m}{cm} \\ 10^{-9} \frac{C}{nC} \end{aligned} \right\} \rightarrow \begin{cases} r = 0.01 \text{ m} \\ q_A = 1 \cdot 10^{-9} \text{ C} \\ q_B = 2 \cdot 10^{-9} \text{ C} \\ q_C = 2 \cdot 10^{-9} \text{ C} \end{cases}$$



$$F_{CA} = F_{BA} \quad (\text{BECAUSE } q_B = q_C \text{ \& } r = r)$$

$$\Rightarrow F_{CA} = F_{BA} = k_e \frac{q_A (q_B = q_C)}{r^2} = \left(8.99 \cdot 10^9 \frac{Nm^2}{C^2} \right) \frac{(1 \cdot 10^{-9} C)(2 \cdot 10^{-9} C)}{(0.01 \text{ m})^2}$$

$$\Rightarrow F_{CA} = F_{BA} = 1.798 \cdot 10^{-4} \text{ N}$$

SINCE $F_{CA} = F_{BA}$, $F_{CAx} = F_{BAx}$ \& CANCEL OUT

$$\Sigma F_{on A} = F_{CAy} + F_{BAy} = 2(F_{CA} = F_{BA}) \sin(60)$$

$$\Rightarrow \Sigma F_{on A} = 2(1.557 \cdot 10^{-4} \text{ N})$$

$$\Rightarrow F = 3.114 \cdot 10^{-4} \text{ N}$$

Mastering Physics Problem Solutions

Rachel Sandford



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