

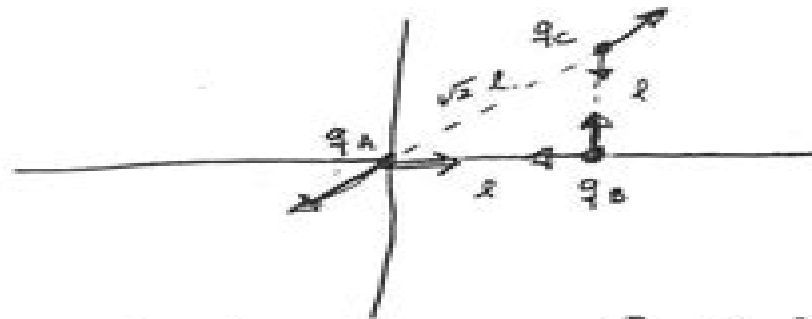
2. Point charges of the following values are placed at the positions:

A ( $q_A = +1.0 \times 10^{-3} \text{ C}$ ,  $x_A = 0$ ,  $y_A = 0$ )

B ( $q_B = -2.0 \times 10^{-3} \text{ C}$ ,  $x_B = 10 \text{ cm}$ ,  $y_B = 0$ )

C ( $q_C = +3.0 \times 10^{-3} \text{ C}$ ,  $x_C = 10 \text{ cm}$ ,  $y_C = 10 \text{ cm}$ )

Find the force,  $F$ , on each charge exerted by the other two charges.



25

Points

5

$$F_{Ax} = \frac{q_A}{4\pi\epsilon_0} \left[ \frac{q_B}{r^2} - \frac{q_C}{2r^2} \cos 45^\circ \right] = (9 \times 10^9 \frac{Nm^2}{C^2}) (10^{-5} C) \left[ \frac{2 \times 10^{-5} C}{10^{-2} m^2} - \frac{3 \times 10^{-5} C \cos 45^\circ}{2 \times 10^{-2} m^2} \right]$$

$$F_{Ax} = 84.5 \text{ N}$$

4

$$F_{Ay} = -\frac{q_A q_C \sin 45^\circ}{4\pi\epsilon_0 (2r^2)} = -\left(9 \times 10^9 \frac{Nm^2}{C^2}\right) \left(\frac{\sqrt{2} \times 10^{-5} C \times 3 \times 10^{-5} C \sin 45^\circ}{2 \times 10^{-2} m^2}\right) = -95.5 \text{ N}$$

4

$$F_{Bx} = -\frac{q_C |q_B|}{4\pi\epsilon_0 r^2} = -\left(9 \times 10^9 \frac{Nm^2}{C^2}\right) \left(\frac{10^{-5} C \times 2 \times 10^{-5} C}{10^{-2} m^2}\right) = -180 \text{ N}$$

4

$$F_{By} = \frac{q_C |q_B|}{4\pi\epsilon_0 r^2} = \left(9 \times 10^9 \frac{Nm^2}{C^2}\right) \left(\frac{3 \times 10^{-5} C \times 2 \times 10^{-5} C}{10^{-2} m^2}\right) = 540 \text{ N}$$

4

$$F_{Cx} = \frac{q_A q_C \cos 45^\circ}{4\pi\epsilon_0 (2r^2)} = \left(9 \times 10^9 \frac{Nm^2}{C^2}\right) \left(\frac{10^{-5} C \times 3 \times 10^{-5} C \cos 45^\circ}{2 \times 10^{-2} m^2}\right) = 95.5 \text{ N}$$

4

$$F_{Cy} = \frac{q_C}{4\pi\epsilon_0} \left[ \frac{q_A \sin 45^\circ}{2r^2} - \frac{|q_B|}{r^2} \right] = \left(9 \times 10^9 \frac{Nm^2}{C^2}\right) \left[ \frac{10^{-5} C \sin 45^\circ}{2 \times 10^{-2} m^2} - \frac{2 \times 10^{-5} C}{10^{-2} m^2} \right] (3 \times 10^{-5} C)$$

$$F_{Cy} = -445 \text{ N}$$

# Questions And Problems In General Physics

**Jicheng Xie**



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