

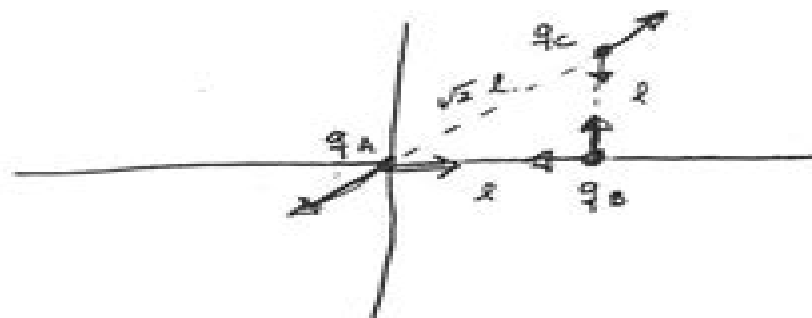
2. Point charges of the following values are placed at the positions:

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.



Points

5

$$F_{Ax} = \frac{q_A}{4\pi\epsilon_0} \left[\frac{1q_B}{r^2} - \frac{q_C}{2r^2} \cos 45^\circ \right] = (9 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2}) \left(\frac{2 \times 10^{-5}}{10^{-2} \text{m}^2} - \frac{3 \times 10^{-5} \cos 45^\circ}{2 \times 10^{-2} \text{m}^2} \right)$$

5

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

4

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

4

$$F_{Bx} = -\frac{q_C 1q_B}{4\pi\epsilon_0 r^2} = -\left(9 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} \right) \left(\frac{(10^{-3}) \times (2 \times 10^{-3})}{10^{-2} \text{m}^2} \right) = -180 \text{ N}$$

4

$$F_{By} = \frac{q_C 1q_B}{4\pi\epsilon_0 r^2} = \left(9 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} \right) \left(\frac{(3 \times 10^{-3}) \times (2 \times 10^{-3})}{10^{-2} \text{m}^2} \right) = 540 \text{ N}$$

4

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

4

$$F_{Cy} = \frac{q_C}{4\pi\epsilon_0} \left[\frac{q_A \sin 45^\circ}{2r^2} - \frac{1q_B}{r^2} \right] = \left(9 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} \right) \left[\frac{10^{-3} \sin 45^\circ}{2 \times 10^{-2} \text{m}^2} - \frac{2 \times 10^{-3}}{10^{-2} \text{m}^2} \right] (3 \times 10^{-3})$$

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

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Power Reactor Technology and Reactor Fuel Processing, 1968 *Proceedings of the Twenty-fourth Annual Conference of the Cognitive Science Society* Wayne D. Gray, Christian D. Schunn, 2019-04-24 This volume features the complete text of

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