

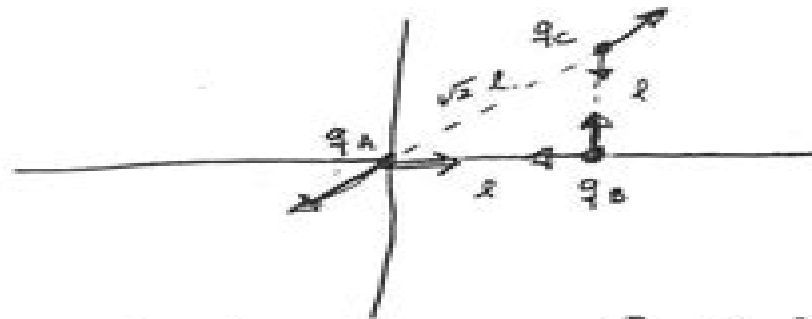
2. Point charges of the following values are placed at the positions:

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

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

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

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

**Ying Liu**



## **Questions And Problems In General Physics:**

## Decoding **Questions And Problems In General Physics**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Questions And Problems In General Physics**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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