

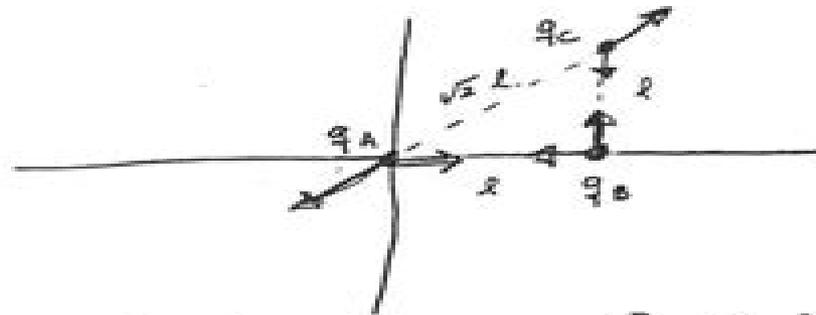
2. Point charges of the following values are placed at the positions:

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

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

4

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

4

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

4

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

4

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

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

Questions And Problems In General Physics

L Reisser



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Table of Contents Questions And Problems In General Physics

1. Understanding the eBook Questions And Problems In General Physics
 - The Rise of Digital Reading Questions And Problems In General Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Questions And Problems In General Physics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Questions And Problems In General Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Questions And Problems In General Physics
 - Personalized Recommendations
 - Questions And Problems In General Physics User Reviews and Ratings

- Questions And Problems In General Physics and Bestseller Lists
- 5. Accessing Questions And Problems In General Physics Free and Paid eBooks
 - Questions And Problems In General Physics Public Domain eBooks
 - Questions And Problems In General Physics eBook Subscription Services
 - Questions And Problems In General Physics Budget-Friendly Options
- 6. Navigating Questions And Problems In General Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Questions And Problems In General Physics Compatibility with Devices
 - Questions And Problems In General Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Questions And Problems In General Physics
 - Highlighting and Note-Taking Questions And Problems In General Physics
 - Interactive Elements Questions And Problems In General Physics
- 8. Staying Engaged with Questions And Problems In General Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Questions And Problems In General Physics
- 9. Balancing eBooks and Physical Books Questions And Problems In General Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Questions And Problems In General Physics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Questions And Problems In General Physics
 - Setting Reading Goals Questions And Problems In General Physics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Questions And Problems In General Physics
 - Fact-Checking eBook Content of Questions And Problems In General Physics
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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