I Assignment View I

PH2200 University Physics II Electricity & Magnetism

Homework 1 - Chapter 26 (22 points)

Due at 11:00pm on Thursday, January 22, 2009

View Grading Details

Placing Charges Conceptual Question

Below are free-body diagrams for three electric charges that lie in the same plane. Their relative positions are unknown.

Proof. A.

Post B

Along which of the lines (A to H) in the figure should charge 2 be placed so that the free-body diagrams of charge 1 and charge 2 are consistent?



Hint A 1 How to approach the problem

Newton's 3rd law states that the forces exerted by a pair of objects on each other are always equal in magnitude and opposite in direction. Identifying the forces that correspond to 3rd-law pairs in the free-body diagrams will enable you to place the particles in their proper relative position.

Hint A.2 Placing charge 2

The two forces acting on charge 2 correspond to the forces exerted on it by charge 1 and charge 3. This means that one of these forces must pair with a force on charge 1 of equal magnitude and opposite direction and the other must pair with a force on charge 3 of equal magnitude and opposite direction. Also note that charge 2 should be repelled by charge 1, since both are negative. Therefore, the vector that represents the force of charge 1 on charge 2 must point away from charge 1. This information is all you need to place charge 2 in its correct position.

ANSWER: C

Along which of the lines (A to H) in the figure should charge 3 be placed so that the free-body diagrams of charge 1, charge 2, and charge 3 are consistent?

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Pawan Kahol, Donald Foster, Randall D. Knight

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Table of Contents Mastering Physics Solutions Manual

- 1. Understanding the eBook Mastering Physics Solutions Manual
 - The Rise of Digital Reading Mastering Physics Solutions Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mastering Physics Solutions Manual
 - 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 Mastering Physics Solutions Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mastering Physics Solutions Manual
 - Personalized Recommendations
 - Mastering Physics Solutions Manual User Reviews and Ratings
 - Mastering Physics Solutions Manual and Bestseller Lists
- 5. Accessing Mastering Physics Solutions Manual Free and Paid eBooks
 - Mastering Physics Solutions Manual Public Domain eBooks
 - Mastering Physics Solutions Manual eBook Subscription Services
 - Mastering Physics Solutions Manual Budget-Friendly Options

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 - o ePub, PDF, MOBI, and More
 - Mastering Physics Solutions Manual Compatibility with Devices
 - Mastering Physics Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Mastering Physics Solutions Manual
 - Highlighting and Note-Taking Mastering Physics Solutions Manual
 - Interactive Elements Mastering Physics Solutions Manual
- 8. Staying Engaged with Mastering Physics Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Physics Solutions Manual
- 9. Balancing eBooks and Physical Books Mastering Physics Solutions Manual
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Mastering Physics Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mastering Physics Solutions Manual
 - Setting Reading Goals Mastering Physics Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mastering Physics Solutions Manual
 - Fact-Checking eBook Content of Mastering Physics Solutions Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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