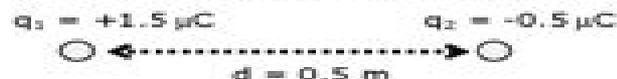


Coulomb's Law & Electric Fields:

1. Consider a fixed point charge of $+1.5 \mu\text{C}$ (q_1). A 2nd charge of $-0.5 \mu\text{C}$ (q_2) is placed at a distance of 0.5 m from q_1 .



a. What is the magnitude and direction of the electric force exerted on q_2 due to q_1 ?

Ans.

$$\vec{F}_e = -k \frac{q_1 q_2}{d^2} \hat{i} = -(8.99 \times 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2}) \frac{(1.5 \times 10^{-6} \text{C})(0.5 \times 10^{-6} \text{C})}{(0.5 \text{m})^2} \hat{i} = -0.0270 \text{N} \hat{i}$$

b. A 3rd charge of $-1.0 \mu\text{C}$ (q_3) is placed 0.25 m directly to the right of q_2 . What is the magnitude and direction of the electric force exerted on q_3 ?

Ans.

$$\vec{F}_e = \left(-k \frac{q_1 q_3}{d_{1 \rightarrow 3}^2} + k \frac{q_2 q_3}{d_{2 \rightarrow 3}^2} \right) \hat{i} =$$

$$\vec{F}_e = (8.99 \times 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2}) (1.0 \times 10^{-6} \text{C}) \left(-\frac{(1.5 \times 10^{-6} \text{C})}{(0.75 \text{m})^2} + \frac{(0.5 \times 10^{-6} \text{C})}{(0.25 \text{m})^2} \right) \hat{i} = 0.0479 \text{N} \hat{i}$$

c. If q_3 is exactly halfway between q_1 and q_2 , what is the magnitude and direction of the electric force exerted on q_3 ?

Ans.

$$\vec{F}_e = \left(-k \frac{q_1 q_3}{d_{1 \rightarrow 3}^2} - k \frac{q_2 q_3}{d_{2 \rightarrow 3}^2} \right) \hat{i} =$$

$$\vec{F}_e = (8.99 \times 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2}) (1.0 \times 10^{-6} \text{C}) \left(-\frac{(1.5 \times 10^{-6} \text{C})}{(0.25 \text{m})^2} - \frac{(0.5 \times 10^{-6} \text{C})}{(0.25 \text{m})^2} \right) \hat{i} = -0.288 \text{N} \hat{i}$$

d. If q_3 is moved 0.3 m downward but still equidistant to q_1 and q_2 , what is the magnitude and direction of the electric force exerted on q_3 ?

Ans.

$$\vec{F}_e = \left(-k \frac{q_1 q_3}{d_{1 \rightarrow 3}^2} - k \frac{q_2 q_3}{d_{2 \rightarrow 3}^2} \right) \hat{i} + \left(-k \frac{q_1 q_3}{d_{1 \rightarrow 3}^2} - k \frac{q_2 q_3}{d_{2 \rightarrow 3}^2} \right) \hat{j} =$$

$$\vec{F}_e = -0.288 \text{N} \hat{i} + (8.99 \times 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2}) (1.0 \times 10^{-6} \text{C}) \left(\frac{(1.5 \times 10^{-6} \text{C})}{(0.30 \text{m})^2} - \frac{(0.5 \times 10^{-6} \text{C})}{(0.30 \text{m})^2} \right) \hat{j}$$

$$\vec{F}_e = -0.288 \text{N} \hat{i} - 0.010 \text{N} \hat{j}$$

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Table of Contents Electric Field Questions And Answers Pdf

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

6. Navigating Electric Field Questions And Answers Pdf eBook Formats
 - ePub, PDF, MOBI, and More
 - Electric Field Questions And Answers Pdf Compatibility with Devices
 - Electric Field Questions And Answers Pdf Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electric Field Questions And Answers Pdf
 - Highlighting and Note-Taking Electric Field Questions And Answers Pdf
 - Interactive Elements Electric Field Questions And Answers Pdf
8. Staying Engaged with Electric Field Questions And Answers Pdf
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electric Field Questions And Answers Pdf
9. Balancing eBooks and Physical Books Electric Field Questions And Answers Pdf
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electric Field Questions And Answers Pdf
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electric Field Questions And Answers Pdf
 - Setting Reading Goals Electric Field Questions And Answers Pdf
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electric Field Questions And Answers Pdf
 - Fact-Checking eBook Content of Electric Field Questions And Answers Pdf
 - 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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