Coulomb's Law & Electric Fields:

- 1. Consider a fixed point charge of $+1.5 \,\mu\text{C}$ (q₁). A 2nd charge of $-0.5 \,\mu\text{C}$ (q₂) is placed at a distance of 0.5 m from q₁. q₂ = $-0.5 \,\mu\text{C}$ Q₂ = $-0.5 \,\mu\text{C}$
- a. What is the magnitude and direction of the electric force exerted on q₂ due to q₁?
 Ans.

$$\hat{F}_{e} = -k \frac{q_{i}q_{i}}{d^{2}} \hat{i} = -\left(8.99 \times 10^{9} \frac{\text{Nxm}^{2}}{\text{C}^{2}}\right) \frac{(1.5 \times 10^{-6} \text{C})(0.5 \times 10^{-6} \text{C})}{(0.5 \text{m})^{2}} \hat{i} = -0.0270 \text{N} \hat{i}$$

b. A 3rd charge of -1.0 μC (q₂) is placed 0.25 m directly to the right of q₂. What is the magnitude and direction of the electric force exerted on q₃?

$$\vec{F}_{E} = \left(-k \frac{q_{1}q_{3}}{d_{1-3}^{2}} + k \frac{q_{2}q_{3}}{d_{2-3}^{2}} \right) \hat{i} = \begin{bmatrix} q_{1} = +1.5 \, \mu \text{C} & q_{2} = -0.5 \, \mu \text{C} \\ 0 & d = 0.5 \, \text{m} \end{bmatrix} \hat{q}_{2} = -0.5 \, \mu \text{C}$$

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

c. If q₁ is exactly halfway between q₁ and q₂, what is the magnitude and direction of the electric force exerted on q₃?

$$\begin{split} \vec{F}_{e} &= \left(-k \frac{Q_{1}Q_{3}}{d_{1 \to 3}^{2}} - k \frac{Q_{2}Q_{3}}{d_{2 \to 3}^{2}} \right) \hat{i} = \\ \vec{F}_{e} &= \left(8.99 \times 10^{9} \frac{t_{NSM}^{2}}{c^{1}} \right) (1.0 \times 10^{6} C) \left(-\frac{(1.5 \times 10^{4} C)}{(0.25 m)^{2}} - \frac{(0.5 \times 10^{4} C)}{(0.25 m)^{2}} \right) \hat{i} = -0.288 N \ \hat{i} \end{split}$$

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 ? $q_1 = +1.5\,\mu\text{C}$ $q_2 = -0.5\,\mu\text{C}$

$$\begin{split} \vec{F}_{e} &= \left(-k \frac{q_{1}q_{3}}{d_{1,1-3}^{2}} - k \frac{q_{2}q_{3}}{d_{1,2-3}^{2}} \right) \hat{i} + \left(-k \frac{q_{1}q_{3}}{d_{2,1-3}^{2}} - k \frac{q_{2}q_{3}}{d_{2,2-3}^{2}} \right) \hat{j} = \\ \vec{F}_{e} &= -0.288N \ \hat{i} + \left(8.99 \times 10^{9} \frac{8 \times m^{2}}{C^{3}} \right) \left(1.0 \times 10^{-6} \text{C} \right) \left(\frac{\left(1.5 \times 10^{-6} \text{C} \right)}{\left(0.30 \text{m} \right)^{2}} - \frac{\left(0.5 \times 10^{-6} \text{C} \right)}{\left(0.30 \text{m} \right)^{2}} \right) \hat{j} \\ \vec{F}_{e} &= -0.288N \ \hat{i} - 0.010N \ \hat{j} \end{split}$$

Electrostatic Electric Field Practice Exercises Answer Key

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Electrostatic Electric Field Practice Exercises Answer Key:

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Table of Contents Electrostatic Electric Field Practice Exercises Answer Key

- 1. Understanding the eBook Electrostatic Electric Field Practice Exercises Answer Key
 - The Rise of Digital Reading Electrostatic Electric Field Practice Exercises Answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Electrostatic Electric Field Practice Exercises Answer Key
 - 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 Electrostatic Electric Field Practice Exercises Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Electrostatic Electric Field Practice Exercises Answer Key
 - Personalized Recommendations
 - Electrostatic Electric Field Practice Exercises Answer Key User Reviews and Ratings
 - Electrostatic Electric Field Practice Exercises Answer Key and Bestseller Lists
- 5. Accessing Electrostatic Electric Field Practice Exercises Answer Key Free and Paid eBooks
 - Electrostatic Electric Field Practice Exercises Answer Key Public Domain eBooks
 - Electrostatic Electric Field Practice Exercises Answer Key eBook Subscription Services
 - Electrostatic Electric Field Practice Exercises Answer Key Budget-Friendly Options
- 6. Navigating Electrostatic Electric Field Practice Exercises Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Electrostatic Electric Field Practice Exercises Answer Key Compatibility with Devices
 - Electrostatic Electric Field Practice Exercises Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Electrostatic Electric Field Practice Exercises Answer Key
- Highlighting and Note-Taking Electrostatic Electric Field Practice Exercises Answer Key
- Interactive Elements Electrostatic Electric Field Practice Exercises Answer Key
- 8. Staying Engaged with Electrostatic Electric Field Practice Exercises Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrostatic Electric Field Practice Exercises Answer Key
- 9. Balancing eBooks and Physical Books Electrostatic Electric Field Practice Exercises Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrostatic Electric Field Practice Exercises Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electrostatic Electric Field Practice Exercises Answer Key
 - Setting Reading Goals Electrostatic Electric Field Practice Exercises Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electrostatic Electric Field Practice Exercises Answer Key
 - Fact-Checking eBook Content of Electrostatic Electric Field Practice Exercises Answer Key
 - 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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