

Chapter 22 Solutions

Problem 1:

A $+1.5\text{ microC}$ charge is located 40 cm from a -3.0 microC charge. The magnitude of the electrostatic force on the larger charge and on the smaller charge (in N) is, respectively.

Answer: 2.5, 2.5

Solution: The magnitude of the electrostatic force is given by,

$$F = \frac{KQ_1Q_2}{r^2} = \frac{(8.99 \times 10^9 \text{ Nm}^2/\text{C}^2)(1.5\mu\text{C})(3.0\mu\text{C})}{(.40\text{m})^2} = 2.51\text{N}$$

Remember the force on 1 due to 2 is equal and opposite to the force on 2 due to 1.

Problem 2:

Two point particles have charges q_1 and q_2 and are separated by a distance d . Particle q_2 experiences an electrostatic force of 1.2 mN due to particle q_1 . If the charges of both particles are doubled and if the distance between them is doubled, what is the magnitude of the electrostatic force between them (in mN)?

Answer: 6.0

Solution: The magnitude of the initial electrostatic force is

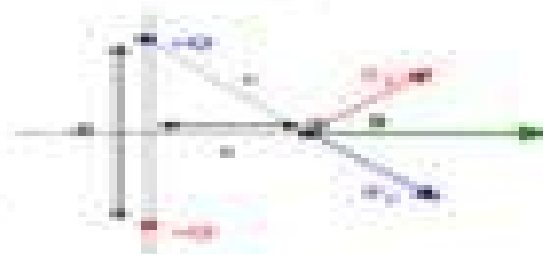
$$F_1 = \frac{Kq_1q_2}{d^2} = 1.2\text{mN}$$

The magnitude of the final electrostatic force is

$$F_2 = \frac{K(2q_1)(2q_2)}{(2d)^2} = F_1 = 1.2\text{mN}$$

Problem 3:

Two identical point charges $+Q$ are located on the y -axis at $y=+d/2$ and $y=-d/2$, as shown in the figure. A third charge q is placed on the x -axis. At what distance from the origin is the net force on q a maximum?



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1. Understanding the eBook Knight Physics Answers Solutions
 - The Rise of Digital Reading Knight Physics Answers Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Knight Physics Answers Solutions
 - 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 Knight Physics Answers Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Knight Physics Answers Solutions
 - Personalized Recommendations
 - Knight Physics Answers Solutions User Reviews and Ratings
 - Knight Physics Answers Solutions and Bestseller Lists

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 - Knight Physics Answers Solutions Budget-Friendly Options
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 - Knight Physics Answers Solutions Enhanced eBook Features
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 - Interactive Elements Knight Physics Answers Solutions
8. Staying Engaged with Knight Physics Answers Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Knight Physics Answers Solutions
9. Balancing eBooks and Physical Books Knight Physics Answers Solutions
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 - Creating a Diverse Reading Collection Knight Physics Answers Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Knight Physics Answers Solutions
 - Setting Reading Goals Knight Physics Answers Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Knight Physics Answers Solutions
 - Fact-Checking eBook Content of Knight Physics Answers Solutions
 - 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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