

Holt Physics Chapter 16 Coulomb's Law Activity Sheet

Coulomb's law states that the electric force, $F_{electric}$, between two charged particles that have charges q_1 and q_2 and are separated by distance r is given by the following equation:

$$F_{electric} = k_C \left(\frac{q_1 q_2}{r^2} \right)$$

On the graphing calculator, this equation has been entered into Y_1 as follows:

$$Y_1 = 8.99E9(AB/X^2)$$

In the graphing calculator program ELF, you will enter the charges and observe a graph of electric force versus distance. By analyzing the graphs for different sets of charges (positive with positive, negative with negative, and positive with negative), you will gain a better understanding of Coulomb's law and how charge and distance affect electric force.

Download the ELF program to your TI-83/84 calculator. Press **PRGM**, then scroll down to ELF by pressing **▾**. Press **ENTER** twice to start the program. Enter the value for the charges (see below). The calculator will produce a graph of electric force vs. distance. Use **TRACE** to determine the force at selected distances (see below). Press **2nd****[QUIT]** to stop viewing the graph. Press **ENTER** to restart the program.

- The value 8.99E9 appears in the equation for Y_1 . What are the units of this value of k_C ?
- Calculate the electric forces for the following charges and distances.

q_1 (C)	q_2 (C)	r (m)	$F_{electric}$ (N)
7.5×10^{-5}	3.2×10^{-6}	0.05	
7.5×10^{-5}	3.2×10^{-6}	0.10	
7.5×10^{-5}	3.2×10^{-6}	0.20	
-7.5×10^{-5}	-3.2×10^{-6}	0.10	
7.5×10^{-5}	-3.2×10^{-6}	0.10	
-7.5×10^{-5}	3.2×10^{-6}	0.10	
7.5×10^{-5}	3.2×10^{-6}	0.10	

- The magnitude of the electric force _____ (increases or decreases) the magnitude of the charges, and the force _____ (increases or decreases) as the distance between the charges increases.
- The magnitude of the electric force is _____ (dependent on or independent of) the signs of the charges.
- The electric force is positive and repulsive when the charges have the _____ (same or opposite) signs and is negative and attractive when the charges have the _____ (same or opposite) signs.

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Annelies Wilder-Smith



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Table of Contents Holt Physics Solutions Chapter 16

1. Understanding the eBook Holt Physics Solutions Chapter 16
 - The Rise of Digital Reading Holt Physics Solutions Chapter 16
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Solutions Chapter 16
 - 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 Holt Physics Solutions Chapter 16
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Solutions Chapter 16

- Personalized Recommendations
- Holt Physics Solutions Chapter 16 User Reviews and Ratings
- Holt Physics Solutions Chapter 16 and Bestseller Lists
- 5. Accessing Holt Physics Solutions Chapter 16 Free and Paid eBooks
 - Holt Physics Solutions Chapter 16 Public Domain eBooks
 - Holt Physics Solutions Chapter 16 eBook Subscription Services
 - Holt Physics Solutions Chapter 16 Budget-Friendly Options
- 6. Navigating Holt Physics Solutions Chapter 16 eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Physics Solutions Chapter 16 Compatibility with Devices
 - Holt Physics Solutions Chapter 16 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Physics Solutions Chapter 16
 - Highlighting and Note-Taking Holt Physics Solutions Chapter 16
 - Interactive Elements Holt Physics Solutions Chapter 16
- 8. Staying Engaged with Holt Physics Solutions Chapter 16
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Physics Solutions Chapter 16
- 9. Balancing eBooks and Physical Books Holt Physics Solutions Chapter 16
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Physics Solutions Chapter 16
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Physics Solutions Chapter 16
 - Setting Reading Goals Holt Physics Solutions Chapter 16
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Physics Solutions Chapter 16

- Fact-Checking eBook Content of Holt Physics Solutions Chapter 16
 - 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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