

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^{-7}	3.2×10^{-6}	0.05	
7.5×10^{-7}	3.2×10^{-6}	0.10	
7.5×10^{-7}	3.2×10^{-6}	0.20	
-7.5×10^{-7}	-3.2×10^{-6}	0.10	
7.5×10^{-7}	-3.2×10^{-6}	0.10	
-7.5×10^{-7}	3.2×10^{-6}	0.10	
7.5×10^{-7}	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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Herman Thompson Briscoe



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General Chemistry for Colleges Herman Thompson Briscoe,1938 **Book Review Digest** ,1910 Holt Algebra 1 2003 Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003 **Holt Physical Science** Mapi M. Cuevas,1994

Physics, a General Introduction Alan Van Heuvelen,1986 **The American School Board Journal** ,1909 **Who's who in America** ,1930 **The Publishers Weekly** ,1909 *Modern Methods in High School Teaching* Harl Roy Douglass,1926 This volume addresses teachers and principals presenting a comprehensive treatment of the methods of teaching in high schools The author assumes a familiarity on the part of his readers with the nature of the learning process adolescence and the psychological foundations of interests and motives as they relate to whole hearted pupil activity The fundamentals of both theory and practice are set forth and an attempt has been made to outline and describe the newer types of procedure which are being employed in different subjects in the best secondary schools Throughout the volume the attempt has been made clearly to represent practices rather than to advocate their adoption The reader is permitted to draw his own conclusions The book will appeal to the type of reader who wants to be intelligent about what is going on in high school teaching *Scientific American* ,1912

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Table of Contents Holt Physics Answers Chapter 16

1. Understanding the eBook Holt Physics Answers Chapter 16
 - The Rise of Digital Reading Holt Physics Answers Chapter 16
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Answers 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 Answers Chapter 16
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Answers Chapter 16
 - Personalized Recommendations
 - Holt Physics Answers Chapter 16 User Reviews and Ratings
 - Holt Physics Answers Chapter 16 and Bestseller Lists
5. Accessing Holt Physics Answers Chapter 16 Free and Paid eBooks

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