

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.

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

q_1 (C)	q_2 (C)	r (m)	$F_{electric}$ (N)
7.5×10^{-3}	3.2×10^{-6}	0.05	
7.5×10^{-3}	3.2×10^{-6}	0.10	
7.5×10^{-3}	3.2×10^{-6}	0.20	
-7.5×10^{-3}	-3.2×10^{-6}	0.10	
7.5×10^{-3}	-3.2×10^{-6}	0.10	
-7.5×10^{-3}	3.2×10^{-6}	0.10	
7.5×10^{-3}	3.2×10^{-5}	0.10	

- c. 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.
- d. The magnitude of the electric force is _____ (dependent on or independent of) the signs of the charges.
- e. 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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RJ Alexander

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Holt Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-03 **Physics** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006 **Holt Physical Science** William L. Ramsey, 1997-11 **Books in Print Supplement**, 2002 **An Introduction to Physics** Harvard Project Physics, 1968 **Holt Science and Technology** Holt, Rinehart and Winston Staff, 2001 The Specific Heat Of Matter At Low Temperatures Ahmet Tari, 2003-08-12 Recent discoveries of new materials and improvements in calorimetric techniques have given new impetus to the subject of specific heat Nevertheless there is a serious lack of literature on the subject This invaluable book which goes some way towards remedying that is concerned mainly with the specific heat of matter at ordinary temperatures It discusses the principles that underlie the theory of specific heat and considers a number of theoretical models in some detail The subject matter ranges from traditional materials to those recently discovered heavy fermion compounds high temperature superconductors spin glasses and so on and includes a large number of figures tables and references The book will be particularly useful for advanced undergraduate and postgraduate students as well as academics and researchers a General Chemistry for Colleges Herman Thompson Briscoe, 1938 Elementary Differential Equations and Boundary Value Problems William E. Boyce, Richard C. DiPrima, Douglas B. Meade, 2017-08-21 Elementary Differential Equations and Boundary Value Problems 11e like its predecessors is written from the viewpoint of the applied mathematician whose interest in differential equations may sometimes be quite theoretical sometimes intensely practical and often somewhere in between The authors have sought to combine a sound and accurate but not abstract exposition of the elementary theory of differential equations with considerable material on methods of solution analysis and approximation that have proved useful in a wide variety of applications While the general structure of the book remains unchanged some notable changes have been made to improve the clarity and readability of basic material about differential equations and their applications In addition to expanded explanations the 11th edition includes new problems updated figures and examples to help motivate students The program is primarily intended for undergraduate students of mathematics science or engineering who typically take a course on differential equations during their first or second year of study The main prerequisite for engaging with the program is a working knowledge of calculus gained from a normal two or three semester course sequence or its equivalent Some familiarity with matrices will also be helpful in the chapters on systems of differential equations **AP Physics C Premium, 2024: 4 Practice Tests + Comprehensive Review + Online Practice** Robert A. Pelcovits, Joshua Farkas, 2023-07-04 Provides a comprehensive review of the topics covered on the exam study and test taking strategies four full length practice tests and online practice with a timed test option and scoring

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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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