

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.

Holt Physics Chapter 16

John Curatola



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Holt Physics, 2000-12 Holt Physics Raymond A. Serway, 2002 **Physics** Holt Rinehart & Winston, 2000-12

Holt Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-03 *Mathematical Undecidability, Quantum Nonlocality and the Question of the Existence of God* A. Driessen, Antoine Suarez, 2012-12-06 On January 22 1990 the late John Bell held at CERN European Laboratory for Particle Physics Geneva a seminar organized by the Center of Quantum Philosophy that at this time was an association of scientists interested in the interpretation of quantum mechanics In this seminar Bell presented once again his famous theorem Thereafter a discussion took place in which not only physical but also highly speculative epistemological and philosophical questions were vividly debated The list of topics included assumption of free will in Bell's theorem the understanding of mind the relationship between the mathematical and the physical world the existence of unobservable causes and the limits of human knowledge in mathematics and physics Encouraged by this stimulating discussion some of the participants decided to found an Institute for Interdisciplinary Studies IIS to promote philosophical and interdisciplinary reflection on the advances of science Meanwhile the IIS has associated its activities with the Swiss foundation Fondation du Lemman and the Dutch foundation Stichting Instudo registered in Geneva and Amsterdam respectively With its activities the IIS intends to strengthen the unity between the professional activities in science and the reflection on fundamental philosophical questions In addition the interdisciplinary approach is expected to give a contribution to the progress of science and the socio economic development At present three working groups are active within the IIS i.e. the Center for Quantum Philosophy the Wealth Creation and Sustainable Development Group the Neural Science Group Holt Physical Science William L. Ramsey, 1997-11 Autumn of Our Discontent John Curatola, 2022-06-15 In the Fall of 1949 a series of international events shattered the notion that the United States would return to its traditional small peacetime military posture following World War II Autumn of our Discontent chronicles the events that triggered the wholesale review of United States national security policies The review led to the adoption of recommendations advanced in NSC 68 which laid the foundation for America's Cold War activities expanded conventional forces sparked a thermonuclear arms race and equally important to the modern age established the national security state all clear breaks from America's martial past and cornerstone ideologies In keeping with the American military tradition the United States dismantled most of its military power following World War II while Americans in general enjoyed unprecedented post war and peacetime prosperity In the autumn of 1949 however the Soviet's first successful test of their own atomic weapon in August was followed closely by establishment of the communist People's Republic of China on October 1st shattered the illusion that American hegemony would remain unchallenged Combined with the decision at home to increase the size of the atomic stockpile on and the on going debate regarding the Revolt of the Admirals the United States found itself facing a new round of crisis in what became the Cold War Curatola explores these events and the debates

surrounding them to provide a detailed history of an era critical to our own modern age Indeed the security state conceived of in the events of this critical autumn and the legacy of the choices made by American policymakers and military leaders continue to this day *Elements of Modern Physics* Alfred Theodore Goble, David K. Baker, 1971 Holt Science and Technology Holt, Rinehart and Winston Staff, 2001 God and the Atom Victor J. Stenger, 2013-04-09 This history of atomism from Democritus to the recent discovery of the Higgs boson chronicles one of the most successful scientific hypotheses ever devised Originating separately in both ancient Greece and India the concept of the atom persisted for centuries despite often running afoul of conventional thinking Until the twentieth century no direct evidence for atoms existed Today it is possible to actually observe atoms using a scanning tunneling microscope In this book physicist Victor J Stenger makes the case that in the final analysis atoms and the void are all that exists The book begins with the story of the earliest atomists the ancient Greek philosophers Leucippus Democritus and Epicurus and the Latin poet Lucretius As the author notes the idea of elementary particles as the foundation of reality had many opponents throughout history from Aristotle to Christian theologians and even some nineteenth century chemists and philosophers While theists today accept that the evidence for the atomic theory of matter is overwhelming they reject the atheistic implications of that theory In conclusion the author underscores the main point made throughout this work the total absence of empirical facts and theoretical arguments to support the existence of any component to reality other than atoms and the void can be taken as proof beyond a reasonable doubt that such a component is nowhere to be found **Books in Print Supplement**, 2002

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web aug 26 2018 sql performance tuning is the process of improving the queries executing within your database with the intention of returning the desired results as efficiently and quickly as possible there may be dozens of ways to return the same results and sql performance tuning is all about finding the fastest least expensive one

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web jan 22 2021 database performance tuning refers to the various ways database administrators can ensure databases are running as efficiently as possible typically this refers to tuning sql server or oracle queries for enhanced performance

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web nov 8 2022 what is database performance tuning database performance tuning involves database object improvement by examining indexes views and table normalization sql queries should be written in a way that makes optimum use of database structures such as indexes