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^{-3}	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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