

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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JS Bruner



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Scientific American ,1912

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