

Unit I - Worksheet 3: Coulomb's Law Key

1. Given the mathematical representation of Coulomb's Law, $F = k \frac{q_1 q_2}{r^2}$, where $k = 9.0 \times 10^9 \text{ Nm}^2/\text{C}^2$, describe in words the relationship among electric force, charge, and distance.

The electric force is proportional to the product of the charges and is inversely proportional to the square of the distance between the charges.

2. By how much does the electric force between a pair of charged bodies diminish when their separation is doubled? tripled?

$$F_1 = \frac{k}{r^2} \quad F_2 = \frac{k}{(2r)^2} = \frac{k}{4r^2} \quad F_2 = \frac{1}{4}F_1 \quad F_1 = \frac{k}{r^2} \quad F_2 = \frac{k}{(3r)^2} = \frac{k}{9r^2} \quad F_2 = \frac{1}{9}F_1$$

The force is 1/4th as much. *The force is 1/9th as much.*

3. Two positive charges of $6.0 \times 10^{-6} \text{ C}$ are separated by 0.50 m. Draw a force diagram for each of the charges, considering only electrostatic forces. What is the magnitude of the force between the charges? Is this force repulsive or attractive?



$$F = k \frac{q_1 q_2}{r^2} \quad F = \frac{9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} (6.0 \times 10^{-6} \text{ C})(6.0 \times 10^{-6} \text{ C})}{(.50\text{m})^2} = 1.3\text{N}$$

Like charge repells, so the force is repulsive.

4. A negative charge of $2.0 \times 10^{-4} \text{ C}$ and a positive charge of $8.0 \times 10^{-4} \text{ C}$ are separated by 0.30 m. What is the magnitude of the force between the charges? Is this force repulsive or attractive?

$$F = k \frac{q_1 q_2}{r^2} \quad F = \frac{9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} (-2.0 \times 10^{-4} \text{ C})(8.0 \times 10^{-4} \text{ C})}{(.30\text{m})^2} = 1600\text{N}$$

Opposite charges attract, so the force is attractive.

5. A young man accumulates a charge q_1 of $+2.0 \times 10^{-5} \text{ C}$ while sliding out of the front seat of a car. His girlfriend, who had been waiting in the wind, has picked up some extra electrons and now has a charge q_2 of $-8.0 \times 10^{-5} \text{ C}$.

Draw a sketch of the situation. Estimate the magnitude of the electrical force that each person exerts on the other when separated by a distance of 6.0 m. Is the force attractive or repulsive?

Coulombs Law Practice Worksheet 152

John D. Kraus

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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How to Prepare for SAT II Herman Gewirtz,David S. Martin,1994 Four model SAT II tests in physics are patterned after the actual exam in its new SAT II format All questions are answered and explained An in depth review covers the basic concepts of physics and many drill questions with answers are included to sharpen students skills **The Mechanics of Engineering Soils** Percival Leonard Capper,William Fisher Cassie,1960 *Experimental Stress Analysis and Its Influence on Design* Max Ludwig Meyer,1971 **Beama Journal** ,1954 **Metals Abstracts** ,1998-04 **Selected Abstracts from the Abstracts Journal, Metallurgy** ,1963 Aeronautics ,1917

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