

Coulomb's Law Worksheet Solutions

1. Two charged spheres 10 cm apart attract each other with a force of $3.0 \times 10^{-6} \text{ N}$. What force results from each of the following changes, considered separately?
- Both charges are doubled and the distance remains the same.
 - An uncharged, identical sphere is touched to one of the spheres, and then taken far away.
 - The separation is increased to 30 cm.

$$\begin{aligned}
 F &\propto q_1 q_2 \rightarrow 4F \propto 2q_1 2q_2 \rightarrow 4F = 4(3E-6N) = 1.2E-5N \\
 \text{one of the spheres loses half its charge} &\rightarrow F \propto q_1 q_2 \rightarrow \frac{1}{2}F \propto \frac{1}{2}q_1 q_2 \rightarrow \frac{1}{2}F = \frac{1}{2}(3E-6N) = 1.5E-6N \\
 F &\propto \frac{1}{d^2} \rightarrow \frac{1}{9}F \propto \frac{1}{(3d)^2} \rightarrow \frac{1}{9}F = \frac{1}{9}(3E-6N) = 3.3E-7N
 \end{aligned}$$

2. The force of electrostatic repulsion between two small positively charged objects, A and B, is $3.6 \times 10^{-5} \text{ N}$ when $AB = 0.12 \text{ m}$. What is the force of repulsion if AB is increased to

- 0.24 m
- 0.36 m

Since $F \propto \frac{1}{d^2}$,

- Double the distance, quarter the force. $\rightarrow \frac{1}{4}(3.6E-5N) = 9E-6N$
- Triple the distance, reduce the force to 1/9th its original value. $\rightarrow \frac{1}{9}(3.6E-5N) = 4E-6N$

3. Calculate the force between charges of $5.0 \times 10^{-8} \text{ C}$ and $1.0 \times 10^{-7} \text{ C}$ if they are 5.0 cm apart.

$$F = \frac{kq_1 q_2}{d^2} = \frac{(8.99E9 \frac{N \cdot m^2}{C^2})(5E-8C)(1E-7C)}{(.05m)^2} = 0.0180N = 1.8E-2N$$

4. What is the magnitude of the force a $1.5 \times 10^{-6} \text{ C}$ charge exerts on a $3.2 \times 10^{-4} \text{ C}$ charge located 1.5 m away?

$$F = \frac{kq_1 q_2}{d^2} = \frac{(8.99E9 \frac{N \cdot m^2}{C^2})(1.5E-6C)(3.2E-4C)}{(1.5m)^2} = 1.92N$$

Coulombs Law Worksheet Practice 15

JS Bruner



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