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Coulomb's Law

READ

In this skill sheet, you will work with Coulomb's law. There are many similarities and some differences between the equation of universal gravitation and the equation for Coulomb's law. They are both inverse square law relationships, and they both have similar arrangements of variables.

When two charges q_1 and q_2 are separated by a distance r , there exists a force between them that is given by:

Coulomb's law

$$\text{Force (N)} \quad F = \overset{\text{Constant}}{\underset{(9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)}{K}} \frac{\overset{\text{Charges (C)}}{q_1 q_2}}{\underset{\text{Distance (m)}}{r^2}}$$


where F equals the force in newtons and K is a constant equal to $9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$. The units of q_1 and q_2 are the coulombs (C). Distance is given in meters. Here are some important points about the relationships of the variables in Coulomb's law.

- Force is inversely proportional to the square of the distance between the charges. Therefore, if the distance increases by a factor of 2, the force decreases by a factor of 4.
- Force is proportional to the strength of each charge.
- When the two charges have the same sign (positive or negative), the force between them is repulsive because like charges repel.
- When the charges have opposite signs, the force between them is attractive because unlike charges attract.

PRACTICE 1

1. What happens to the force between two charges if the distance between them is tripled? $\frac{1}{9}F$
2. What happens to the force between two charges if the distance between them is quadrupled? $\frac{1}{16}F$
3. What happens to the force between two charges if the distance between them is cut in half? $4F$
4. What happens to the force between two charges if the magnitude of one charge is doubled? $2F$
5. What happens to the force between two charges if the magnitude of both charges is doubled? $4F$
6. What happens to the force between two charges if the magnitude of both charges is doubled and the distance between them is doubled? no change
7. What happens to the force between two charges if the magnitude of both charges is doubled and the distance between them is cut in half? $16F$

Coulombs Law 152 Worksheet Answers

Tobias Bleicker

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.

Coulombs Law 152 Worksheet Answers:

Reviewing **Coulombs Law 152 Worksheet Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Coulombs Law 152 Worksheet Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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