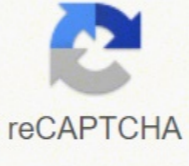




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Next

Directions: Answer the questions below using Coulomb's law. Be sure to use SI units when using the equation. Show all work and circle your final answer.

- A charged sphere with an excess charge of +5.5mC is placed 0.15m from another charged sphere, which carries a charge of -9. μ C.
 - What is the magnitude of the electrical force between the two charged spheres?
 - Is this a repulsive or attractive force?
 - How many excess electrons are on the negative sphere?
 - How many electrons has the positive sphere lost?
- An electron and a proton are 0.1 mm apart. What is the magnitude of the force? Is the force repulsive or attractive?
- Two objects are at rest on a table when they are given a charge. The one object has a charge of +7.8 μ C and the other has a charge of -0.54mC. The magnitude of the force between the two objects is 17.5N. What is the distance between the two objects?

Pre AP Physics Electrostatics Review (Sheet)

- A negative charge of -6.0 μ C exerts an attractive force of 60 N on a second charge 0.280 m away. What is the magnitude of the second charge? (+3.008 x 10⁻⁷ C)
- Two charges, q_1 and q_2 , are separated by a distance, d , and exert a force, F , on each other. What new force will exist if:
 - q_1 is doubled? (2F)
 - q_1 and q_2 are not in half? (1/4)
 - d is halved? (1/4)
 - d is cut in half? (4F)
 - q_1 is tripled and d is doubled? (3/4)F
- Two electrons, each with a charge of -1.6×10^{-19} C, are separated by 1.5×10^{-10} m, the typical size of an atom. What is the electric force between them? (7.624×10^{-10} N, repulsive)
- A positive and negative charge, each of magnitude 1.8×10^{-12} C, are separated by a distance of 16 cm. Calculate the force on the particles. (98 N, attractive)
- Two negative charges of -3.0 μ C exert a repulsive force of 2.0 N on each other. Calculate the distance that separates them. (0.201 m)
- Three charges lie along the x-axis. One positive charge, $q_1 = 11.0 \mu$ C, is at the origin, and another positive charge, $q_2 = 8.0 \mu$ C, is at $x = 1.50$ m. At what point on the x-axis must a negative charge, q_3 , be placed so that the resultant force on it is zero? (1.873 m from q_1)
- A positive charge of 9.8×10^{-6} C is separated from a second positive charge of 7.2×10^{-6} C by 80 cm. Calculate the electric force between the two particles. (1.792 N, repulsive)
- A charge, $q_1 = 7.40 \mu$ C, is at the origin, and a second charge, $q_2 = -3.20 \mu$ C, is on the x-axis 0.568 m from the origin. Find the electric field at a point on the y-axis 0.658 m from the origin. (1.57×10^5 N/C at 63.13°)
- An object, A, with +2.3 x 10⁻⁶ C charge, has two other stationary charges nearby. Object B, -0.1 x 10⁻⁶ C, is 0.088 m to the right. Object C, +6.1 x 10⁻⁶ C, is 0.12 m below. What is the net force on A? (0.888 N at 33.63°)
- Two negative charges of -11.20 μ C are separated by 0.790 m. What force exists between the charges? (2.087 N)
- A charge of $+3.48 \times 10^{-7}$ C is placed at the origin, and another charge of $+5.8 \times 10^{-7}$ C is placed at $x = 2.3$ m. Find the point between these two charges where a charge of $+3.00 \times 10^{-7}$ C should be placed so that the net electric force on it is zero. (1.812 m from q_1)
- How far apart are two electrons, each with a charge of -1.6×10^{-19} C, if they exert a repulsive force of 2.08 N on each other? (1×10^{-11} m)
- A force of 5.8×10^{-7} N exists between a positive charge of 7.30×10^{-4} C and a negative charge of -2.67×10^{-4} C. What distance separates the charges? (0.558 m)
- Two identical point charges are separated by a distance of 7.0 cm, and they repel each other with a force of $11 \text{ N} = 10^{-3}$ N. What is the new force if the distance between the point charges is tripled? (1.333×10^{-3} N)
- Two point charges are separated by 120 cm. If one charge is +14.0 μ C and the other is -11.5 μ C, what is the force between them? (1.828 N, attractive)
- A charge of 3.71×10^{-4} C is attracted by a second charge with a force of 485 N when the separation is 22.0 cm. Calculate the size of the second charge. (8.740×10^{-4} C)
- A charge q_1 of -6.24×10^{-6} C and a charge q_2 of -2.18×10^{-6} C are separated by a distance of 120.0 cm. Find the equilibrium position for a third charge of $+11.0 \times 10^{-6}$ C. (0.726 m from q_1)

NAME: _____ DATE: _____

UNIT 3 Newton's Second Law

Newton's second law expresses the relationship between the net force on an object and the object's acceleration.
 $\text{net force} = \text{mass} \times \text{acceleration}$
 $F_{\text{net}} = ma$

Use Newton's second law to solve the following problems.

- A 100 kg car accelerates at a rate of 1.00 m/s². What is the net force on the car?
 - A freight train slows down as it approaches a turn and, if it has a mass of 1.5×10^7 kg, is required to make an acceleration of -0.33 m/s^2 . What is the force exerted?
- A 5.25 x 10³ kg roller ship is moving at 10 m/s and is coming to a stop. The ship then undergoes an acceleration that has a magnitude of 0.25 m/s². How long does it take for the ship to come to rest at its starting point? What is the net force acting on the ship as it slows down?
 - A boat is lifted from its foundation with a force of 2000 N. This force causes the boat to move from rest to an upward speed of 0.20 m/s in 1.0 s. What is the mass of the boat?
- A catcher in a professional baseball game catches a ball at a rate of 2.00 m/s. If the ball's mass is 0.145 kg, what is the force on the ball as it is being caught?
 - Beowulf, a fictional hero of 1.8 N, is thrown at a rate of 2.0 m/s. If a net force of 2.0 N is applied to a hero in a game, how long does it take for a hero to move from rest to an upward speed of 0.20 m/s in 1.0 s. What is the mass of the hero?
- A 2.0 kg ball is being thrown to the right. The force of gravity that slows the ball downward is partially offset by the upward force of the thrower. What is the net force on the ball?
 - What is the net force on the ball?
 - What is the mass of the ball?

Coulomb's Law Quiz

1. Write the mathematical representation of Coulomb's Law. What does k mean?

$F = k \frac{q_1 q_2}{r^2}$ Describe in words the relationship among the force, the charges, and distance.

The electric force is a non-contact force that acts on the charged particles, which are separated in the vacuum of the air. Distance is the charge.

2. If two point-like charged objects (each having a net charge of $1.0 \mu\text{C}$) are separated by a distance of 1.0 m , what is the force between them?

$$F_1 = \frac{k}{r^2} q_1 q_2 = \frac{9.0 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2}{(1.0 \text{ m})^2} (1.0 \times 10^{-6} \text{ C}) (1.0 \times 10^{-6} \text{ C}) = 9.0 \times 10^{-7} \text{ N}$$

The force is $9.0 \times 10^{-7} \text{ N}$.

3. The space between charges is filled with a material medium and is electrically separated by a dielectric constant of $\epsilon_r = 2.0$. The force of repulsion is $1.0 \times 10^{-7} \text{ N}$. The same charges are separated by 1.0 m . What is the force?

The force is $4.5 \times 10^{-8} \text{ N}$.

$$F = \frac{k}{\epsilon_r} \frac{q_1 q_2}{r^2} = \frac{9.0 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2}{2.0} \frac{(1.0 \times 10^{-6} \text{ C}) (1.0 \times 10^{-6} \text{ C})}{(1.0 \text{ m})^2} = 4.5 \times 10^{-8} \text{ N}$$

4. What is the force of repulsion between two charges of $1.0 \mu\text{C}$ separated by a distance of 1.0 m in a vacuum?

$$F = \frac{k}{r^2} q_1 q_2 = \frac{9.0 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2}{(1.0 \text{ m})^2} (1.0 \times 10^{-6} \text{ C}) (1.0 \times 10^{-6} \text{ C}) = 9.0 \times 10^{-7} \text{ N}$$

5. Two point-like charged objects (each having a net charge of $1.0 \mu\text{C}$) are separated by a distance of 1.0 m . The force of repulsion is $1.0 \times 10^{-7} \text{ N}$. The same charges are separated by 1.0 m . What is the force?

$$F = \frac{k}{r^2} q_1 q_2 = \frac{9.0 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2}{(1.0 \text{ m})^2} (1.0 \times 10^{-6} \text{ C}) (1.0 \times 10^{-6} \text{ C}) = 9.0 \times 10^{-7} \text{ N}$$

The electric force is $9.0 \times 10^{-7} \text{ N}$.

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Quiz & Worksheet - Coulomb's Law

<http://study.com/academy/practice/quiz-worksheet-coulomb-s-law.html>

1. Increasing the charge on one particle by a factor of 2 while leaving all other factors the same will:

- cause the force to increase by a factor of 4
- cause the force to decrease by a factor of 2
- cause the force to decrease by a factor of 4
- cause the force to remain the same
- cause the force to increase by a factor of 2

2. Increasing the distance between particles by a factor of 2 while leaving all other factors the same will:

- cause the force to increase by a factor of 2
- cause the force to remain the same
- cause the force to decrease by a factor of 4
- cause the force to decrease by a factor of 2
- cause the force to increase by a factor of 4

3. Decreasing the charge on both particles by a factor of 2 while leaving all other factors the same will:

- cause the force to decrease by a factor of 4
- cause the force to decrease by a factor of 2
- cause the force to increase by a factor of 2
- cause the force to increase by a factor of 4
- cause the force to remain the same

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Coulomb's law physics classroom worksheet answers.

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I provide a full page and half page option for students to fill in as the video plays. Dr. Shini Somara is your host. Intermediate Electromagnetic Theory. The law is also known as Coulomb's inverse square law. The scalar form of Coulomb's law is: $F = kQ_1Q_2/r^2$ or $F = Q_1Q_2/2\pi r^2\epsilon_0$ where $k = 1/4\pi\epsilon_0$ = Coulomb's constant ($9.0 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2$) F = force between the charges Q_1 and Q_2 = amount of charge = distance between the two charges A vector form of the equation is also available, which may be used to indicate both the magnitude and direction of the force between the two charges. World Scientific. Quizzes are used for students to demonstrate proficiency of learning targets outlined in the corresponding curriculum guide bySubjects:Types:Also included in: Second Semester Bundle09 - Electrostatics Quiz 2by Fully editable, NGSS/modeling pedagogy aligned quiz! There is a mix of free-response and multiple-choice questions for most quizzes, which are usually one or two pages long. It may be used to derive Gauss's law. Wiley. ISBN 0470542764.Stewart, Joseph (2001). (2010). There are three requirements which must be met in order to use Coulomb's law: The charges must be stationary with respect to each other.The charges must be non-overlapping.The charges must be either point charges or else otherwise spherically symmetrical in shape. Worksheets are used for students to deploy models developed from inquiry labs and as a way to practice problem-solving on route to maSubjects:Types:Also included in: Second Semester BundleElectrostatics Worksheetsby 3 fully editable, NGSS/modeling pedagogy aligned worksheets! There are a variety of free response questions for most worksheets, which are usually one or two pages long. The force is attractive if the charges attract each other (have opposite signs) or repulsive if the charges have like signs. 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