

### 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  $k = 9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2}$ , 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?

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

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

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

*The force is 1/9th 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?



$$F = k \frac{q_1 q_2}{r^2} \quad F = \frac{9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} (6.0 \times 10^{-6} \text{ C})(6.0 \times 10^{-6} \text{ C})}{(0.50 \text{ m})^2} = 1.3 \text{ N}$$

*Like charge repels, 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?

$$F = k \frac{q_1 q_2}{r^2} \quad F = \frac{9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} (-2.0 \times 10^{-4} \text{ C})(8.0 \times 10^{-4} \text{ C})}{(0.30 \text{ m})^2} = 1600 \text{ N}$$

*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 152 Worksheet Answers

**Charles W. Misner,Patrick J. Cooney**

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web the human thorax includes the thoracic cavity and the thoracic wall it contains organs including the heart lungs and thymus gland as well as muscles and various other internal structures many diseases may affect the chest and one

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web the thorax is the area of the body situated between the neck and the abdomen the thorax itself can be split up into various areas that contain important structures the thorax is bound by bony structures including the 12 pairs of ribs and thoracic vertebrae whilst also being supported by many ligaments and muscles

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web aug 17 2023 the thorax has two major openings the superior thoracic aperture found superiorly and the inferior thoracic aperture located inferiorly the superior thoracic aperture opens towards the neck it is bounded by the bones of the upper thorax manubrium of sternum the first pair of ribs and the body of the vertebra t1

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web the thorax of the female differs from that of the male as follows 1 its capacity is less 2 the sternum is shorter 3 the upper margin of the sternum is on a level with the lower part of the body of the third thoracic vertebra whereas in the male it is on a level with the lower part of the body of the second 4