

Chapter 22 Solutions

Problem 1:

A $+1.5\text{ microC}$ charge is located 40 cm from a -3.0 microC charge. The magnitude of the electrostatic force on the larger charge and on the smaller charge (in N) is, respectively.

Answer: 2.5, 2.5

Solution: The magnitude of the electrostatic force is given by,

$$F = \frac{KQ_1Q_2}{r^2} = \frac{(8.99 \times 10^9 \text{ Nm}^2/\text{C}^2)(1.5\mu\text{C})(3.0\mu\text{C})}{(40\text{cm})^2} = 2.51\text{N}$$

Remember the force on 1 due to 2 is equal and opposite to the force on 2 due to 1.

Problem 2:

Two point particles have charges q_1 and q_2 and are separated by a distance d . Particle q_2 experiences an electrostatic force of 1.2 mN due to particle q_1 . If the charges of both particles are doubled and if the distance between them is doubled, what is the magnitude of the electrostatic force between them (in mN)?

Answer: 0.3

Solution: The magnitude of the initial electrostatic force is

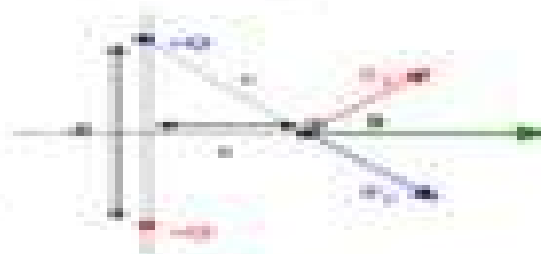
$$F_1 = \frac{Kq_1q_2}{d^2} = 1.2\text{mN}$$

The magnitude of the final electrostatic force is

$$F_2 = \frac{K(2q_1)(2q_2)}{(2d)^2} = F_1 = 1.2\text{mN}$$

Problem 3:

Two identical point charges $+Q$ are located on the y -axis at $y=+d/2$ and $y=-d/2$, as shown in the figure. A third charge q is placed on the x -axis. At what distance from the origin is the net force on q a maximum?



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