

## Chapter 22 Solutions

### Problem 1:

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

**Answer:** 2.5, 2.5

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

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

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  $1.2\text{ mN}$  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  $\text{mN}$ )?

**Answer:** 0.3

**Solution:** The magnitude of the initial electrostatic force is

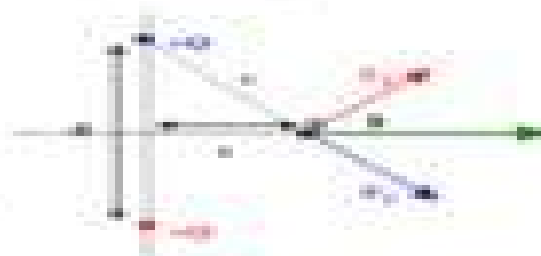
$$F_1 = \frac{Kq_1q_2}{d^2} = 1.2\text{mN}$$

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?



# Knight Physics Answers Solutions

**Rachel S Tattersall**



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