Coulomb's Law & Electric Fields:

- 1. Consider a fixed point charge of $+1.5 \,\mu\text{C}$ (q₁). A 2nd charge of $-0.5 \,\mu\text{C}$ (q₂) is placed at a distance of 0.5 m from q₁. q₂ = $-0.5 \,\mu\text{C}$ Q₂ = $-0.5 \,\mu\text{C}$
- a. What is the magnitude and direction of the electric force exerted on q_2 due to q_1 ? Ans.

$$\vec{F}_{e} = -k \frac{q_{i}q_{i}}{d^{2}} \hat{i} = -(8.99 \times 10^{9} \frac{\text{Nam2}}{\text{C}^{2}}) \frac{(1.5 \times 10^{-6} \text{C})(0.5 \times 10^{-6} \text{C})}{(0.5 \text{m})^{2}} \hat{i} = -0.0270 \text{N} \hat{i}$$

b. A 3rd charge of -1.0 μC (q₂) is placed 0.25 m directly to the right of q₂. What is the magnitude and direction of the electric force exerted on q₃?

$$\vec{F}_{E} = \left(-k \frac{q_{1}q_{3}}{d_{1-3}^{2}} + k \frac{q_{2}q_{3}}{d_{2-3}^{2}} \right) \hat{i} = \begin{bmatrix} q_{1} = +1.5 \, \mu \text{C} & q_{2} = -0.5 \, \mu \text{C} \\ 0 & d = 0.5 \, \text{m} \end{bmatrix} \hat{q}_{2} = -0.5 \, \mu \text{C}$$

$$\vec{F}_{E} = \left(8.99 \times 10^{9} \, \frac{M_{SSM}^{2}}{\text{C}^{2}} \right) \left(1.0 \times 10^{-6} \text{C} \right) \left(-\frac{\left(1.5 \times 10^{-6} \text{C} \right)}{\left(0.75 \text{m} \right)^{2}} + \frac{\left(0.5 \times 10^{-6} \text{C} \right)}{\left(0.25 \text{m} \right)^{2}} \right) \hat{i} = 0.0479 \, \text{N} \, \hat{i}$$

c. If q₁ is exactly halfway between q₁ and q₂, what is the magnitude and direction of the electric force exerted on q₃?

$$\begin{split} \vec{F}_{e} &= \left(-k \frac{q_{1}q_{3}}{d_{1 \to 3}^{2}} - k \frac{q_{2}q_{3}}{d_{2 \to 3}^{2}} \right) \hat{i} = \\ \vec{F}_{e} &= \left(8.99 \times 10^{9} \frac{tx_{cm^{2}}}{c^{2}} \right) (1.0 \times 10^{6} C) \left(-\frac{(1.5 \times 10^{4} C)}{(0.25 m)^{3}} - \frac{(0.5 \times 10^{4} C)}{(0.25 m)^{2}} \right) \hat{i} = -0.288 N \ \hat{i} \end{split}$$

d. If q_3 is moved 0.3 m downward but still equidistant to q_1 and q_2 , what is the magnitude and direction of the electric force exerted on q_3 ? $q_1 = +1.5\,\mu\text{C}$ $q_2 = -0.5\,\mu\text{C}$

$$\begin{split} \vec{F}_{e} &= \left(-k \frac{q_{1}q_{3}}{d_{1}^{2}} - k \frac{q_{2}q_{3}}{d_{1}^{2}} \right) \hat{i} + \left(-k \frac{q_{2}q_{3}}{d_{1}^{2}} - k \frac{q_{2}q_{3}}{d_{1}^{2}} \right) \hat{j} = \\ \vec{F}_{e} &= -0.288N \ \hat{i} + \left(8.99 \times 10^{9} \frac{M \times M^{2}}{C^{3}} \right) \left(1.0 \times 10^{-6} C \right) \left(\frac{\left(1.5 \times 10^{-6} C \right)}{\left(0.30 m \right)^{2}} - \frac{\left(0.5 \times 10^{-6} C \right)}{\left(0.30 m \right)^{2}} \right) \hat{j} \\ \vec{F}_{e} &= -0.288N \ \hat{i} - 0.010N \ \hat{j} \end{split}$$

Electrostatic Electric Field Practice Exercises Answer Key

Scott C. Dulebohn

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