

## CHAPTER 2

- 2.1. Three point charges are positioned in the  $x$ - $y$  plane as follows:  $5\text{ nC}$  at  $y = 5\text{ cm}$ ,  $-10\text{ nC}$  at  $y = -5\text{ cm}$ ,  $15\text{ nC}$  at  $x = -5\text{ cm}$ . Find the required  $x$ - $y$  coordinates of a  $20\text{-nC}$  fourth charge that will produce a zero electric field at the origin.

With the charges thus configured, the electric field at the origin will be the superposition of the individual charge fields:

$$\mathbf{E}_0 = \frac{1}{4\pi\epsilon_0} \left[ \frac{15}{(5)^2} \mathbf{a}_x - \frac{5}{(5)^2} \mathbf{a}_y - \frac{10}{(5)^2} \mathbf{a}_y \right] = \frac{1}{4\pi\epsilon_0} \left( \frac{3}{5} \right) [\mathbf{a}_x - \mathbf{a}_y] \quad \text{nC/m}$$

The field,  $\mathbf{E}_{20}$ , associated with the  $20\text{-nC}$  charge (evaluated at the origin) must exactly cancel this field, so we write:

$$\mathbf{E}_{20} = \frac{-1}{4\pi\epsilon_0} \left( \frac{3}{5} \right) [\mathbf{a}_x - \mathbf{a}_y] = \frac{-20}{4\pi\epsilon_0 \rho^2} \left( \frac{1}{\sqrt{2}} \right) [\mathbf{a}_x - \mathbf{a}_y]$$

From this, we identify the distance from the origin:  $\rho = \sqrt{100/(3\sqrt{2})} = 4.85$ . The  $x$  and  $y$  coordinates of the  $20\text{-nC}$  charge will both be equal in magnitude to  $4.85/\sqrt{2} = 3.43$ . The coordinates of the  $20\text{-nC}$  charge are then  $(3.43, -3.43)$ .

- 2.2. Point charges of  $1\text{ nC}$  and  $-2\text{ nC}$  are located at  $(0,0,0)$  and  $(1,1,1)$ , respectively, in free space. Determine the vector force acting on each charge.

First, the electric field intensity associated with the  $1\text{ nC}$  charge, evaluated at the  $-2\text{ nC}$  charge location is:

$$\mathbf{E}_{12} = \frac{1}{4\pi\epsilon_0(3)} \left( \frac{1}{\sqrt{3}} \right) (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) \quad \text{nC/m}$$

in which the distance between charges is  $\sqrt{3}\text{ m}$ . The force on the  $-2\text{ nC}$  charge is then

$$\mathbf{F}_{12} = q_2 \mathbf{E}_{12} = \frac{-2}{12\sqrt{3}\pi\epsilon_0} (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) = \frac{-1}{10.4\pi\epsilon_0} (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) \quad \text{nN}$$

The force on the  $1\text{ nC}$  charge at the origin is just the opposite of this result, or

$$\mathbf{F}_{21} = \frac{+1}{10.4\pi\epsilon_0} (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) \quad \text{nN}$$

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**Demetrius T. Paris, Frank Kenneth  
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