

**E25-1** The charge transferred is

$$Q = (2.5 \times 10^4 \text{ C/s})(20 \times 10^{-6} \text{ s}) = 5.0 \times 10^{-1} \text{ C}.$$

**E25-2** Use Eq. 25-4:

$$r = \sqrt{\frac{(8.99 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2)(26.3 \times 10^{-6} \text{ C})(47.1 \times 10^{-6} \text{ C})}{(5.66 \text{ N})}} = 1.40 \text{ m}$$

**E25-3** Use Eq. 25-4:

$$F = \frac{(8.99 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2)(3.12 \times 10^{-6} \text{ C})(1.48 \times 10^{-6} \text{ C})}{(0.123 \text{ m})^2} = 2.74 \text{ N}.$$

**E25-4** (a) The forces are equal, so  $m_1 a_1 = m_2 a_2$ , or

$$m_2 = (6.31 \times 10^{-7} \text{ kg})(7.22 \text{ m/s}^2)/(9.16 \text{ m/s}^2) = 4.97 \times 10^{-7} \text{ kg}.$$

(b) Use Eq. 25-4:

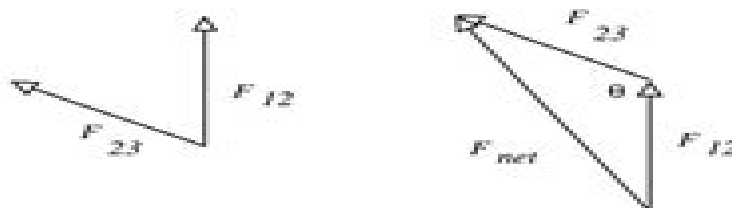
$$q = \sqrt{\frac{(6.31 \times 10^{-7} \text{ kg})(7.22 \text{ m/s}^2)(3.20 \times 10^{-3} \text{ m})^2}{(8.99 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2)}} = 7.20 \times 10^{-11} \text{ C}$$

**E25-5** (a) Use Eq. 25-4,

$$F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r_{12}^2} = \frac{1}{4\pi(8.85 \times 10^{-12} \text{ C}^2/\text{N}\cdot\text{m}^2)} \frac{(21.3 \mu\text{C})(21.3 \mu\text{C})}{(1.52 \text{ m})^2} = 1.77 \text{ N}$$

(b) In part (a) we found  $F_{12}$ ; to solve part (b) we need to first find  $F_{13}$ . Since  $q_3 = q_2$  and  $r_{13} = r_{12}$ , we can immediately conclude that  $F_{13} = F_{12}$ .

We must assess the direction of the force of  $q_3$  on  $q_1$ ; it will be directed along the line which connects the two charges, and will be directed away from  $q_3$ . The diagram below shows the directions.



From this diagram we want to find the magnitude of the *net* force on  $q_1$ . The cosine law is appropriate here:

$$\begin{aligned} F_{\text{net}}^2 &= F_{12}^2 + F_{13}^2 - 2F_{12}F_{13}\cos\theta, \\ &= (1.77 \text{ N})^2 + (1.77 \text{ N})^2 - 2(1.77 \text{ N})(1.77 \text{ N})\cos(120^\circ), \\ &= 9.40 \text{ N}^2, \\ F_{\text{net}} &= 3.07 \text{ N}. \end{aligned}$$

# Solution Manual Physics Resnick Halliday Krane

**David Halliday, Robert Resnick, Jearl  
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