

# Chapter 15

## Electric Forces and Electric Fields

### Problem Solutions

15.1  $F_x$

Since these are like charges (both positive), the force is  $F_x$  and  $F_y$ .

15.2 Particle  $A$  exerts a force toward the right on particle  $B$ . By Newton's third law, particle  $B$  will then exert a force toward the left back on particle  $A$ . The ratio of the final magnitude of the force to the original magnitude of the force is

$$F_x = \left( 8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2} \right) \frac{6.00 \times 10^{-9} \text{ C} \cdot 5.00 \times 10^{-9} \text{ C}}{0.300 \text{ m}^2}$$

$$= 3.00 \times 10^{-6} \text{ N}$$

so

$$F_y = \left( 8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2} \right) \frac{3.00 \times 10^{-9} \text{ C} \cdot 5.00 \times 10^{-9} \text{ C}}{0.100 \text{ m}^2} = 1.35 \times 10^{-5} \text{ N}$$

$$F_x = \sqrt{F_x^2 + F_y^2} = 1.38 \times 10^{-5} \text{ N}$$

The final vector force that  $B$  exerts on  $A$  is  $1.57 \mu\text{N}$  directed to the left.

# Holt Physics Electric Forces And Fields Problems

**Keith Johnson,Simmons Hewett,Sue  
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