Name:_____   **Basic Skills**

Date:_____   **Solving Systems Using Linear Combination**

Use the linear combo method to solve the system. Check your answer!

1. $x + y = 5$
   $x - y = 7$

2. $2x - 3y = -16$
   $x + 3y = 10$

3. $x + 3y = -3$
   $x - 4y = 11$

4. $5x + 2y = 5$
   $3x + y = 2$

5. $4x - 5y = -18$
   $5x + 4y = -2$

6. $2x + 5y = -22$
   $4x - 3y = 8$

7. $9x - 4y = -18$
   $-3x + 8y = 6$

8. $4x = -3 + y$
   $y = -6x - 7$

9. $4x = 5y + 6$
   $3y + 2x = -8$

10. A travel agency offers two Boston outings. Plan A includes hotel accommodations for 3 nights and 2 pairs of baseball tickets worth $645. Plan B includes hotel accommodations for 5 nights and 4 pairs of baseball tickets worth $1135.

Let *x* represent the cost of one night's hotel accommodation and let *y* represent the cost of one pair of baseball tickets.

Write a system you could solve to find the cost of one night's hotel accommodation and one pair of baseball tickets (solve for x and y).