Solve each system of equations using linear combinations/elimination.

1. 
$$\begin{cases} 3x + 5y = 8\\ 2x - 5y = 22 \end{cases}$$
 2. 
$$\begin{cases} 4x - y = 2\\ 2x + 2y = 26 \end{cases}$$

3. 
$$\begin{cases} 3x + 5y = 8\\ 2x - 5y = 22 \end{cases}$$
4. 
$$\begin{cases} 2x - 4y = 4\\ -3x + 10y = 14 \end{cases}$$

5. 
$$\begin{cases} 5x - 5y = 10\\ 6x - 6y = 12 \end{cases}$$
  
6. 
$$\begin{cases} \frac{3}{4}x + \frac{1}{2}y = -\frac{3}{4}\\ \frac{2}{3}x + \frac{2}{3}y = \frac{2}{3} \end{cases}$$

## Write a system of equations to represent each problem situation. Then, solve using the linear combinations/elimination.

7. The high school marching band is selling fruit baskets. A large basket containing 10 apples and 15 oranges sells for \$20. A small basket containing 5 apples and 6 oranges sells for \$8.50. **How much does each apple and each orange sell for?** 

8. Asna works on a shipping dock at a tire manufacturing plant. She loads one pallet with 4 Mudslinger tires and 6 Roadripper tires that weighs 212 pounds. She loads a second pallet with 7 Mudslinger tires and 2 Roadripper tires weighing 184 pounds. **How much does each Mudslinger tire and each Roadripper tire weigh?** 

**9.** The Pizza Barn sells one customer 3 large pepperoni pizzas and 2 orders of breadsticks for \$30. They sell another customer 4 large pepperoni pizzas and 3 orders of breadsticks for \$41. **How much does each pepperoni pizza and each order of breadsticks cost?**