NAME _____ DATE _____ PERIOD _____

6-5 Skills Practice

Applying Systems of Linear Equations

Determine the best method to solve each system of equations. Then solve the system.

1. $5x + 3y = 16$
$3x - 5y = -4$

2. $3x - 5y = 7$
$2x + 5y = 13$

3. $y = 3x - 24$
$5x - y = 8$

4. $-11x - 10y = 17$
$5x - 7y = 50$

5. $4x + y = 24$
$5x - y = 12$

6. $6x - y = -145$
$x = 4 - 2y$

7. VEGETABLE STAND A roadside vegetable stand sells pumpkins for \$5 each and squashes for \$3 each. One day they sold 6 more squash than pumpkins, and their sales totaled \$98. Write and solve a system of equations to find how many pumpkins and squash they sold?

8. INCOME Ramiro earns \$20 per hour during the week and \$30 per hour for overtime on the weekends. One week Ramiro earned a total of \$650. He worked 5 times as many hours during the week as he did on the weekend. Write and solve a system of equations to determine how many hours of overtime Ramiro worked on the weekend.

9. BASKETBALL Anya makes 14 baskets during her game. Some of these baskets were worth 2-points and others were worth 3-points. In total, she scored 30 points. Write and solve a system of equations to find how 2-points baskets she made.