NAME_____ DATE _____

Practice

Solving Systems of Equations Algebraically

Solve each system of equations by using substitution.

1. $2x + y = 4$
   $3x + 2y = 1$

2. $x - 9 = 3y$
   $x + 2y = -1$

3. $x + 3y = 8$
   $\frac{1}{3}x + y = 9$

4. $2x - 3y = 6$
   $-\frac{2}{3}x + y = -2$

Solve each system of equations by using elimination.

5. $2x + y = 1$
   $3x - y = 14$

6. $2x - y = -1$
   $3x + 2y = 30$

7. $6x + 3y = 6$
   $8x + 5y = 12$

8. $\dfrac{3x - y}{2} = 5$
   $\dfrac{4x - y}{4} = 4$

Solve each system of equations. Use either substitution or elimination.

9. $8x + 3y + 5 = 0$
   $10x + 6y + 13 = 0$

10. $\dfrac{2x}{5} - \dfrac{3y}{4} = -2$
    $\dfrac{x}{2} + \dfrac{y}{4} = 7$

11. $\dfrac{x}{4} - \dfrac{y}{3} = 1$
    $\dfrac{1}{3}x - \dfrac{4y}{9} = \dfrac{4}{3}$

12. $4x - 2y = 5$
    $2x = y - 1$