

Name : \_\_\_\_\_

Score : \_\_\_\_\_ Date : \_\_\_\_\_

## Systems of Equations Worksheet

Solve each system by substitution.

$$\begin{aligned} \boxed{1} \quad & y = x + 15 \\ & y = -2x - 4 \end{aligned}$$

$$\begin{aligned} \boxed{2} \quad & -3x - 3y = 3 \\ & y = -5x - 17 \end{aligned}$$

$$\begin{aligned} \boxed{3} \quad & x + 5y = 15 \\ & -3x + 2y = 6 \end{aligned}$$

$$\begin{aligned} \boxed{4} \quad & 5x - 6y = -14 \\ & -2x + 4y = 12 \end{aligned}$$

$$\begin{aligned} \boxed{5} \quad & -6x + 6y = -12 \\ & 8x - 3y = 16 \end{aligned}$$

$$\begin{aligned} \boxed{6} \quad & y = 2x - 10 \\ & y = 4x - 8 \end{aligned}$$

$$\begin{aligned} \boxed{7} \quad & 4x + 2y = 8 \\ & 16x - y = 14 \end{aligned}$$

$$\begin{aligned} \boxed{8} \quad & y = -5 \\ & 3x + 4y = -17 \end{aligned}$$

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### Answers

1  $y = x + 15$   
 $y = -2x - 4$

$x = -\frac{19}{3}, y = \frac{26}{3}$

2  $-3x - 3y = 3$   
 $y = -5x - 17$

$x = -4, y = 3$

3  $x + 5y = 15$   
 $-3x + 2y = 6$

$x = 0, y = 3$

4  $5x - 6y = -14$   
 $-2x + 4y = 12$

$x = 2, y = 4$

5  $-6x + 6y = -12$   
 $8x - 3y = 16$

$x = 2, y = 0$

6  $y = 2x - 10$   
 $y = 4x - 8$

$x = -1, y = -12$

7  $4x + 2y = 8$   
 $16x - y = 14$

$x = 1, y = 2$

8  $y = -5$   
 $3x + 4y = -17$

$x = 1, y = -5$