

Name:

Date: Score:

Solving Systems of Linear Equations Worksheet

Solve each pair of equations by substitution

1 $-2x + y = 5$
 $6x - 3y = -9$

2 $y = x + 4$
 $3x - 4y = -19$

3 $-4x + y = 6$
 $-5x - y = 21$

4 $6x + 4y = -8$
 $-6x + y = 28$

5 $x = -2y$
 $x - 9 = 9$

6 $x + y = 3$
 $x - y = -3$

7 $x = y - 4$
 $-2x + 3y = 6$

8 $-5x + 20 = 5y$
 $-2x + y = 7$

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Answers

1 $-2x + y = 5$
 $6x - 3y = -9$

No Solution

3 $-4x + y = 6$
 $-5x - y = 21$

$x = -3, y = -6$

5 $x = -2y$
 $x - 9 = 9$

$x = 18, y = -9$

7 $x = y - 4$
 $-2x + 3y = 6$

$x = -6, y = -2$

2 $y = x + 4$
 $3x - 4y = -19$

$y = 7, x = 3$

4 $6x + 4y = -8$
 $-6x + y = 28$

$x = -4, y = 4$

6 $x + y = 3$
 $x - y = -3$

$x = 0, y = 3$

8 $-5x + 20 = 5y$
 $-2x + y = 7$

$x = -1, y = 5$