

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

## Solving Linear Systems of Equations by Substitution

Solve each of the following systems by substitution.

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

2  $x - y = 11$   
 $2x + y = 19$

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

4  $3x + 6y = 12$   
 $x + 2y = 8$

5  $8x + 14y = 4$   
 $-6x - 7y = -10$

6  $2x + 4y = 4$   
 $2x + 3y = 5$

7  $8x - 6y = -20$   
 $-16x + 7y = 30$

8  $-3x - 4y = 2$   
 $3x + 3y = -3$

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Answer.

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

$(-2, -1)$

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

(No Solution)

5  $8x + 14y = 4$   
 $-6x - 7y = -10$

$(4, -2)$

7  $8x - 6y = -20$   
 $-16x + 7y = 30$

$(-1, 2)$

2  $x - y = 11$   
 $2x + y = 19$

$(10, -1)$

4  $3x + 6y = 12$   
 $x + 2y = 8$

(No Solution)

6  $2x + 4y = 4$   
 $2x + 3y = 5$

$(4, -1)$

8  $-3x - 4y = 2$   
 $3x + 3y = -3$

$(-2, 1)$