

Name : .....

Score : ..... Date : .....

## Solving Systems of Equations by Elimination Method

Use elimination to solve each system of equations.

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

2  $3x - 4y = 8$   
 $5x + 4y = -24$

3  $4x + 2y = 0$   
 $-4x - 9y = -28$

4  $5x + y = 9$   
 $10x + 7y = -18$

5  $3x + 7y = 2$   
 $10x + 5y = -30$

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

7  $3x - 2y = 2$   
 $5x - 5y = 10$

8  $2x + 2y = 12$   
 $3x - 2y = 12$

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## Solving Systems of Equations by Elimination Method

### Answers

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

$x = -\frac{1}{2}, y = -\frac{5}{2}$

2  $3x - 4y = 8$   
 $5x + 4y = -24$

$x = -2, y = -\frac{7}{2}$

3  $4x + 2y = 0$   
 $-4x - 9y = -28$

$x = -2, y = 4$

4  $5x + y = 9$   
 $10x + 7y = -18$

$x = \frac{81}{25}, y = -\frac{36}{5}$

5  $3x + 7y = 2$   
 $10x + 5y = -30$

$x = -4, y = 2$

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

$x = 3, y = -4$

7  $3x - 2y = 2$   
 $5x - 5y = 10$

$x = -2, y = -4$

8  $2x + 2y = 12$   
 $3x - 2y = 12$

$x = \frac{24}{5}, y = \frac{6}{5}$