

Name : _____

Score : _____ Date : _____

Solving Systems of Equations by Elimination Worksheet

Solve each system by elimination.

1 $5x + y = 9$
 $10x - 7y = -18$

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

3 $2x = -3y + 16$
 $5x - 4y = -6$

4 $6x + 6y = -6$
 $5x + y = -13$

5 $-4x + 9y = 9$
 $x - 3y = -6$

6 $-2x - 9y = -25$
 $-4x - 9y = -23$

7 $4x + 8y = 12$
 $2x + 4y = -6$

8 $-7x + y = -19$
 $-2x + 3y = -19$

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Answer.

$$\begin{aligned} \boxed{1} \quad & 5x + y = 9 \\ & 10x - 7y = -18 \end{aligned}$$

(1, 4)

$$\begin{aligned} \boxed{2} \quad & 5x - 3y = 2 \\ & -5x + 3y = 8 \end{aligned}$$

(No Solution)

$$\begin{aligned} \boxed{3} \quad & 2x = -3y + 16 \\ & 5x - 4y = -6 \end{aligned}$$

(2, 4)

$$\begin{aligned} \boxed{4} \quad & 6x + 6y = -6 \\ & 5x + y = -13 \end{aligned}$$

(-3, 2)

$$\begin{aligned} \boxed{5} \quad & -4x + 9y = 9 \\ & x - 3y = -6 \end{aligned}$$

(9, 5)

$$\begin{aligned} \boxed{6} \quad & -2x - 9y = -25 \\ & -4x - 9y = -23 \end{aligned}$$

(-1, 3)

$$\begin{aligned} \boxed{7} \quad & 4x + 8y = 12 \\ & 2x + 4y = -6 \end{aligned}$$

(No Solution)

$$\begin{aligned} \boxed{8} \quad & -7x + y = -19 \\ & -2x + 3y = -19 \end{aligned}$$

(2, -5)