

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

## Systems of Equations - Elimination Method

L1S1

Solve each system of equations using elimination method.

1)  $2x + 5y = 20$   
 $6x - 5y = 12$

\_\_\_\_\_

2)  $3p + 4q = -3$   
 $-p + 4q = -15$

\_\_\_\_\_

3)  $-7a + 3b = 15$   
 $7a - 6b = -3$

\_\_\_\_\_

4)  $u + v = 11$   
 $-u + v = 9$

\_\_\_\_\_

5)  $5r + 8s = 3$   
 $4r + 8s = -4$

\_\_\_\_\_

6)  $-9c - 2d = 8$   
 $-9c - d = 6$

\_\_\_\_\_

7)  $m - 4n = 13$   
 $m - 6n = 12$

\_\_\_\_\_

8)  $3s + 7t = 18$   
 $3s - 4t = -48$

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## Answer key

### Systems of Equations - Elimination Method

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Solve each system of equations using elimination method.

$$\begin{aligned} 1) \quad 2x + 5y &= 20 \\ 6x - 5y &= 12 \end{aligned}$$

$$\underline{\underline{\left(4, \frac{12}{5}\right)}}$$

$$\begin{aligned} 2) \quad 3p + 4q &= -3 \\ -p + 4q &= -15 \end{aligned}$$

$$\underline{\underline{(3, -3)}}$$

$$\begin{aligned} 3) \quad -7a + 3b &= 15 \\ 7a - 6b &= -3 \end{aligned}$$

$$\underline{\underline{\left(-\frac{27}{7}, -4\right)}}$$

$$\begin{aligned} 4) \quad u + v &= 11 \\ -u + v &= 9 \end{aligned}$$

$$\underline{\underline{(1, 10)}}$$

$$\begin{aligned} 5) \quad 5r + 8s &= 3 \\ 4r + 8s &= -4 \end{aligned}$$

$$\underline{\underline{(7, -4)}}$$

$$\begin{aligned} 6) \quad -9c - 2d &= 8 \\ -9c - d &= 6 \end{aligned}$$

$$\underline{\underline{\left(-\frac{4}{9}, -2\right)}}$$

$$\begin{aligned} 7) \quad m - 4n &= 13 \\ m - 6n &= 12 \end{aligned}$$

$$\underline{\underline{\left(15, \frac{1}{2}\right)}}$$

$$\begin{aligned} 8) \quad 3s + 7t &= 18 \\ 3s - 4t &= -48 \end{aligned}$$

$$\underline{\underline{(-8, 6)}}$$