

Name : _____

Systems of Equations - Elimination Method

L2S2

Solve each system of equations using elimination method.

1) $u - 20 = -4v$
 $-2v + u = -10$

2) $7x = 3y$
 $7x - 6y = -1$

3) $5m + n = 41$
 $68 = n + 8m$

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5) $-69 = -4a - 9b$
 $4a = 3b - 27$

7) $8r - 2 = -q$
 $-6 + 7q = 8r$

8) $-s + t = 9$
 $-16 = -4t - s$

Systems of Equations - Elimination Method

Solve each system of equations using elimination method.

$$\begin{aligned} 1) \quad u - 20 &= -4v \\ -2v + u &= -10 \end{aligned}$$

 $(0, 5)$

$$\begin{aligned} 2) \quad 7x &= 3y \\ 7x - 6y &= -1 \end{aligned}$$

 $\left(\frac{1}{7}, \frac{1}{3}\right)$

$$\begin{aligned} 3) \quad 5m + n &= 41 \\ 68 &= n + 8m \end{aligned}$$

 $(9, -4)$

$$\begin{aligned} 5) \quad -69 &= -4a - 9b \\ 4a &= 3b - 27 \end{aligned}$$

 $\left(-\frac{3}{4}, 8\right)$

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$$\begin{aligned} 7) \quad 8r - 2 &= -q \\ -6 + 7q &= 8r \end{aligned}$$

 $\left(1, \frac{1}{8}\right)$

$$\begin{aligned} 8) \quad -s + t &= 9 \\ -16 &= -4t - s \end{aligned}$$

 $(-4, 5)$