

Systems of Equations

Use the best method to solve each system of equations.

1) $5s + 2t - u - 13 = 0$
 $2s - 6t + 9u - 25 = 0$
 $-4s + 3t - 8u + 36 = 0$

2) $-b - c = -25 + 3a$
 $6a + c = 10 + 5b$
 $2a + b + 3c = 14$

3) $-4p = -8 + 9q - 4t$
 $2p = 8 - 6q + 3t$
 $8p = 1 + 3q + 7t$

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5) $3u + 2v = 11 - 4t$
 $9u + 8v = 28 + 4t$
 $-3u - 2v = -2 - 4t$

7) $4x - 3y + 7z + 23 = 0$
 $3x + 2y + 9z + 46 = 0$
 $9x - 5y + 41 = -6z$

8) $2v - w + 4x = -42$
 $-42 = 5v + 2w + 7x$
 $-7v - 3w - 9x = 50$

Systems of Equations

Use the best method to solve each system of equations.

$$\begin{aligned} 1) \quad & 5s + 2t - u - 13 = 0 \\ & 2s - 6t + 9u - 25 = 0 \\ & -4s + 3t - 8u + 36 = 0 \end{aligned}$$

$$\begin{aligned} 2) \quad & -b - c = -25 + 3a \\ & 6a + c = 10 + 5b \\ & 2a + b + 3c = 14 \end{aligned}$$

(2, 4, 5)**(7, 6, -2)**

$$\begin{aligned} 3) \quad & -4p = -8 + 9q - 4t \\ & 2p = 8 - 6q + 3t \\ & 8p = 1 + 3q + 7t \end{aligned}$$

 $(\frac{3}{2}, \frac{4}{3}, 1)$

$$\begin{aligned} 5) \quad & 3u + 2v = 11 - 4w \\ & 9u + 8v = 28 + 4w \\ & -3u - 2v = -2 - 4w \end{aligned}$$

 $(\frac{1}{3}, \frac{7}{2}, \frac{3}{4})$

$$\begin{aligned} 7) \quad & 4x - 3y + 7z + 23 = 0 \\ & 3x + 2y + 9z + 46 = 0 \\ & 9x - 5y + 41 = -6z \end{aligned}$$

(-6, -5, -2)

$$\begin{aligned} 8) \quad & 2v - w + 4x = -42 \\ & -42 = 5v + 2w + 7x \\ & -7v - 3w - 9x = 50 \end{aligned}$$

(1, 8, -9)**PREVIEW**

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