

## Systems of Equations

Use the best method to solve each system of equations.

1)  $-5q = 4 - 3p - 6r$   
 $-3q = -5 - p - 5r$   
 $-4q = 13 - 2p - r$

2)  $r + 6s + 2t - 17 = 0$   
 $19 = -6r + 5s + t$   
 $10 = 3r + 2s + 3t$

3)  $4t - 19 = -4u +$   
 $-5u - 2 = t + 5v$   
 $5v = -20 - t + u$

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5)  $7x + 4y - 4z + 4$   
 $5x + 6y + 8z = -$   
 $x = -5 + 8y - 4z$

7)  $-s + 6t + 3u + 9 = 0$   
 $s + t = 4 + u$   
 $-s + 3t + 4u = -5$

8)  $4w + 9x - 6y = 31$   
 $-21 = -4w - 3x + 2y$   
 $2w + 3x = 1 + 8y$

**Systems of Equations**

Use the best method to solve each system of equations.

$$\begin{aligned} 1) \quad & -5q = 4 - 3p - 6r \\ & -3q = -5 - p - 5r \\ & -4q = 13 - 2p - r \end{aligned}$$

$$\begin{aligned} 2) \quad & r + 6s + 2t - 17 = 0 \\ & 19 = -6r + 5s + t \\ & 10 = 3r + 2s + 3t \end{aligned}$$

**(4, -2, -3)****(-1, 2, 3)**

$$\begin{aligned} 3) \quad & 4t - 19 = -4u + 5v \\ & -5u - 2 = t + 5v \\ & 5v = -20 - t + u \end{aligned}$$

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**(-2, 3, -3)**

$$\begin{aligned} 5) \quad & 7x + 4y - 4z + 4 = 0 \\ & 5x + 6y + 8z = -1 \\ & x = -5 + 8y - 4z \end{aligned}$$

 **$(-6, \frac{1}{2}, \frac{5}{4})$** 

$$\begin{aligned} 7) \quad & -s + 6t + 3u + 9 = 0 \\ & s + t = 4 + u \\ & -s + 3t + 4u = -5 \end{aligned}$$

$$\begin{aligned} 8) \quad & 4w + 9x - 6y = 31 \\ & -21 = -4w - 3x + 2y \\ & 2w + 3x = 1 + 8y \end{aligned}$$

**(6, -1, 1)****(4, 3, 2)**