

## Systems of Equations

Use the best method to solve each system of equations.

1)  $6a - 7b = -30 - 9c$   
 $4a - 5c = -7 - 3b$   
 $-8b + 2c = -47 - 2a$

2)  $5s - 8t + 5u + 27 = 0$   
 $-6t - 4u = -48 - 2s$   
 $-t + 9u = 37 - 4s$

3)  $r - 2s + t = 0$   
 $2r + 4s - 3t = 1$   
 $-8r - 5s + 6t =$

5)  $6v + 3w + 9x =$   
 $-7 = 5v + 2w +$   
 $-8v + 6w = -15$

7)  $d = 10 - 6b - 4c$   
 $4b - 7c + 9d - 18 = 0$   
 $5b + c + 3d = 12$

8)  $3u + 4v + 8w + 16 = 0$   
 $-9w = 18 + 5u - 2v$   
 $u + 3v + 4w = -10$

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**Systems of Equations**

Use the best method to solve each system of equations.

$$\begin{aligned} 1) \quad & 6a - 7b = -30 - 9c \\ & 4a - 5c = -7 - 3b \\ & -8b + 2c = -47 - 2a \end{aligned}$$

$$\begin{aligned} 2) \quad & 5s - 8t + 5u + 27 = 0 \\ & -6t - 4u = -48 - 2s \\ & -t + 9u = 37 - 4s \end{aligned}$$

$$\underline{\underline{\left(-\frac{5}{2}, 6, 3\right)}}$$

$$\underline{\underline{(7, 9, 2)}}$$

$$\begin{aligned} 3) \quad & r - 2s + t = 0 \\ & 2r + 4s - 3t = 1 \\ & -8r - 5s + 6t = \end{aligned}$$

$$\underline{\underline{(1, 2, 3)}}$$

$$\begin{aligned} 5) \quad & 6v + 3w + 9x = \\ & -7 = 5v + 2w + \\ & -8v + 6w = -15 \end{aligned}$$

$$\underline{\underline{(-7, -6, 5)}}$$

$$\begin{aligned} 7) \quad & d = 10 - 6b - 4c \\ & 4b - 7c + 9d - 18 = 0 \\ & 5b + c + 3d = 12 \end{aligned}$$

$$\underline{\underline{(-2, 4, 6)}}$$

$$\begin{aligned} 8) \quad & 3u + 4v + 8w + 16 = 0 \\ & -9w = 18 + 5u - 2v \\ & u + 3v + 4w = -10 \end{aligned}$$

$$\underline{\underline{(8, 2, -6)}}$$

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