

Name : _____

Systems of Equations - Elimination Method

Sheet 1

Solve each system of equations using elimination method.

1) $-4x + 3y + 7z = 25$
 $2x - y + 6z = 17$
 $-8x - 5y + 3z = -5$

2) $34 = -9b + 5a + 2c$
 $6a + 25 = 3b + 7c$
 $6c - 4b + a = 46$

3) $-5r - s - 3t = -3$
 $-19 = -6r - 5s - 2t$
 $-2r - 9s = 24 - 4t$

5) $r - 2q + 3p = 11$
 $8q + 5p + 9r = 9$
 $-7p + 6q + 4r = 1$

7) $6x = -24 - 7y$
 $-4y = 18 - 3w + 9x$
 $w - 5x - 7y = 34$

8) $b - 7c - 5d = 48$
 $-8b + 2c + 5d = 32$
 $-1 = 2b - c$

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Systems of Equations - Elimination Method

Solve each system of equations using elimination method.

$$\begin{aligned} 1) \quad & -4x + 3y + 7z = 25 \\ & 2x - y + 6z = 17 \\ & -8x - 5y + 3z = -5 \end{aligned}$$

$$\underline{\underline{\left(\frac{1}{2}, 2, 3\right)}}$$

$$\begin{aligned} 2) \quad & 34 = -9b + 5a + 2c \\ & 6a + 25 = 3b + 7c \\ & 6c - 4b + a = 46 \end{aligned}$$

$$\underline{\underline{(4, 0, 7)}}$$

$$\begin{aligned} 3) \quad & -5r - s - 3t = -3 \\ & -19 = -6r - 5s - 2t \\ & -2r - 9s = 24 \end{aligned}$$

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

$$\begin{aligned} 5) \quad & r - 2q + 3p = 11 \\ & 8q + 5p + 9r = 9 \\ & -7p + 6q + 4r = 3 \end{aligned}$$

$$\underline{\underline{(-3, -6, 8)}}$$

$$\begin{aligned} 7) \quad & 6x = -24 - 7y \\ & -4y = 18 - 3w + 9x \\ & w - 5x - 7y = 34 \end{aligned}$$

$$\underline{\underline{(7, 3, -6)}}$$

$$\begin{aligned} 8) \quad & b - 7c - 5d = 48 \\ & -8b + 2c + 5d = 32 \\ & -1 = 2b - c \end{aligned}$$

$$\underline{\underline{(-5, -9, 2)}}$$

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