

3x3 Systems of Equations - CLASS EXAMPLES

Date _____ Period _____

Solve each system.

$$\begin{aligned} 1) \quad & 4r - 5s + 6t = -4 \\ & -r + 5s - 6t = 13 \\ & r - 5s = 23 \end{aligned}$$

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

$$\begin{aligned} 3) \quad & -2x - 4y - 4z = -16 \\ & -2x - 5y - 2z = -3 \\ & 2x + 2y - 3z = -13 \end{aligned}$$

$$\begin{aligned} 4) \quad & -a - 2b + 3c = 4 \\ & a + 4c = 16 \\ & a + b - 2c = -4 \end{aligned}$$

$$\begin{aligned} 5) \quad & -5a + 4c = 19 \\ & 4a - 4b - 5c = -18 \\ & 3a - 5b - 2c = 1 \end{aligned}$$

$$\begin{aligned} 6) \quad & -2x + 2y - 4z = -14 \\ & 6x + 6y - 2z = -2 \\ & 3x - y - 3z = -13 \end{aligned}$$

Answers to 3x3 Systems of Equations - CLASS EXAMPLES (ID: 1)

1) $(3, -4, -6)$

2) Infinitely many solutions

3) $(4, -3, 5)$

4) $(0, 4, 4)$

5) $(1, -2, 6)$

6) $(0, 1, 4)$