

Linear Systems (F)

Solve each system of equations.

$$\begin{aligned} 1. \quad & -5v + 2x + 3z = 13 \\ & -4v - 3x = 20 \\ & 2v = -10 \end{aligned}$$

$$\begin{aligned} 5. \quad & -3b + 4x - 6y = -21 \\ & -b + 5x = 3 \\ & 3b = -9 \end{aligned}$$

$$\begin{aligned} 2. \quad & -a - b - 3u = 6 \\ & 5a + b = -10 \\ & 2a = -2 \end{aligned}$$

$$\begin{aligned} 6. \quad & 3c - 6y + 6z = -18 \\ & -4c - 4y = 36 \\ & -6c = 24 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4c - 6u - 2x = 14 \\ & -4c + 6u = -16 \\ & -2c = -2 \end{aligned}$$

$$\begin{aligned} 7. \quad & -3b + 6v - 5y = 76 \\ & -2b - 4v = -14 \\ & 2b = -10 \end{aligned}$$

$$\begin{aligned} 4. \quad & -4c + 3v + 6z = 10 \\ & 4c - 5v = 30 \\ & c = 5 \end{aligned}$$

$$\begin{aligned} 8. \quad & -2c - 2v - 4z = -12 \\ & 4c - 6v = 14 \\ & 5c = -5 \end{aligned}$$

Linear Systems (F) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & -5v + 2x + 3z = 13 \\ & -4v - 3x = 20 \\ & 2v = -10 \\ & v = -5, x = 0, z = -4 \end{aligned}$$

$$\begin{aligned} 5. \quad & -3b + 4x - 6y = -21 \\ & -b + 5x = 3 \\ & 3b = -9 \\ & b = -3, x = 0, y = 5 \end{aligned}$$

$$\begin{aligned} 2. \quad & -a - b - 3u = 6 \\ & 5a + b = -10 \\ & 2a = -2 \\ & a = -1, b = -5, u = 0 \end{aligned}$$

$$\begin{aligned} 6. \quad & 3c - 6y + 6z = -18 \\ & -4c - 4y = 36 \\ & -6c = 24 \\ & c = -4, y = -5, z = -6 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4c - 6u - 2x = 14 \\ & -4c + 6u = -16 \\ & -2c = -2 \\ & c = 1, u = -2, x = 1 \end{aligned}$$

$$\begin{aligned} 7. \quad & -3b + 6v - 5y = 76 \\ & -2b - 4v = -14 \\ & 2b = -10 \\ & b = -5, v = 6, y = -5 \end{aligned}$$

$$\begin{aligned} 4. \quad & -4c + 3v + 6z = 10 \\ & 4c - 5v = 30 \\ & c = 5 \\ & c = 5, v = -2, z = 6 \end{aligned}$$

$$\begin{aligned} 8. \quad & -2c - 2v - 4z = -12 \\ & 4c - 6v = 14 \\ & 5c = -5 \\ & c = -1, v = -3, z = 5 \end{aligned}$$