

Linear Systems (I)

Solve each system of equations.

$$\begin{aligned} 1. \quad & -6b + 3v - 6z = -6 \\ & 5b + 6v = -49 \\ & 6b = -30 \end{aligned}$$

$$\begin{aligned} 5. \quad & -2a + 2y - 2z = 12 \\ & a - 6y = -33 \\ & -3a = 9 \end{aligned}$$

$$\begin{aligned} 2. \quad & -4a + 4u + 4x = 28 \\ & -a - 4u = 0 \\ & 5a = -20 \end{aligned}$$

$$\begin{aligned} 6. \quad & 2c + 5v + 6y = -25 \\ & 3c + 4v = -11 \\ & c = 3 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4b - 6c - y = 30 \\ & -3b - 2c = -1 \\ & -6b = -18 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2c - v + 6y = 13 \\ & 4c + 5v = 5 \\ & c = 5 \end{aligned}$$

$$\begin{aligned} 4. \quad & 2b + 6c - y = 2 \\ & 2b - 4c = 18 \\ & 5b = 25 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4u + 6x - 3z = -18 \\ & -4u - 2x = 10 \\ & 3u = 0 \end{aligned}$$

Linear Systems (I) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & -6b + 3v - 6z = -6 \\ & 5b + 6v = -49 \\ & 6b = -30 \\ & b = -5, v = -4, z = 4 \end{aligned}$$

$$\begin{aligned} 5. \quad & -2a + 2y - 2z = 12 \\ & a - 6y = -33 \\ & -3a = 9 \\ & a = -3, y = 5, z = 2 \end{aligned}$$

$$\begin{aligned} 2. \quad & -4a + 4u + 4x = 28 \\ & -a - 4u = 0 \\ & 5a = -20 \\ & a = -4, u = 1, x = 2 \end{aligned}$$

$$\begin{aligned} 6. \quad & 2c + 5v + 6y = -25 \\ & 3c + 4v = -11 \\ & c = 3 \\ & c = 3, v = -5, y = -1 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4b - 6c - y = 30 \\ & -3b - 2c = -1 \\ & -6b = -18 \\ & b = 3, c = -4, y = 6 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2c - v + 6y = 13 \\ & 4c + 5v = 5 \\ & c = 5 \\ & c = 5, v = -3, y = 0 \end{aligned}$$

$$\begin{aligned} 4. \quad & 2b + 6c - y = 2 \\ & 2b - 4c = 18 \\ & 5b = 25 \\ & b = 5, c = -2, y = -4 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4u + 6x - 3z = -18 \\ & -4u - 2x = 10 \\ & 3u = 0 \\ & u = 0, x = -5, z = -4 \end{aligned}$$