

Linear Systems (J)

Solve each system of equations.

$$\begin{aligned} 1. \quad & a + 6c + 2x = -10 \\ & -2a + 2c = 0 \\ & -2a = 0 \end{aligned}$$

$$\begin{aligned} 5. \quad & -6u + 2x + 6z = -16 \\ & 3u - 6x = 9 \\ & 3u = 15 \end{aligned}$$

$$\begin{aligned} 2. \quad & 6a - 4v + y = 10 \\ & a - 6v = -3 \\ & -2a = -6 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 3v + 3y = 23 \\ & 3a + 4v = 9 \\ & a = -1 \end{aligned}$$

$$\begin{aligned} 3. \quad & -3a - 5b - 6u = -34 \\ & 3a + b = 2 \\ & -2a = -2 \end{aligned}$$

$$\begin{aligned} 7. \quad & -5c - 5v + 3x = 12 \\ & 3c + v = 1 \\ & -3c = -6 \end{aligned}$$

$$\begin{aligned} 4. \quad & -6v + 4x - 5y = 28 \\ & -2v + 5x = 31 \\ & 2v = -6 \end{aligned}$$

$$\begin{aligned} 8. \quad & -3u + y - 6z = 10 \\ & -u - 5y = -18 \\ & 5u = -10 \end{aligned}$$

Linear Systems (J) Answers

Solve each system of equations.

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

$$\begin{aligned} 5. \quad & -6u + 2x + 6z = -16 \\ & 3u - 6x = 9 \\ & 3u = 15 \\ & u = 5, x = 1, z = 2 \end{aligned}$$

$$\begin{aligned} 2. \quad & 6a - 4v + y = 10 \\ & a - 6v = -3 \\ & -2a = -6 \\ & a = 3, v = 1, y = -4 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 3v + 3y = 23 \\ & 3a + 4v = 9 \\ & a = -1 \\ & a = -1, v = 3, y = 6 \end{aligned}$$

$$\begin{aligned} 3. \quad & -3a - 5b - 6u = -34 \\ & 3a + b = 2 \\ & -2a = -2 \\ & a = 1, b = -1, u = 6 \end{aligned}$$

$$\begin{aligned} 7. \quad & -5c - 5v + 3x = 12 \\ & 3c + v = 1 \\ & -3c = -6 \\ & c = 2, v = -5, x = -1 \end{aligned}$$

$$\begin{aligned} 4. \quad & -6v + 4x - 5y = 28 \\ & -2v + 5x = 31 \\ & 2v = -6 \\ & v = -3, x = 5, y = 2 \end{aligned}$$

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