

Linear Systems (G)

Solve each system of equations.

$$\begin{aligned} 1. \quad & -3b - 2y - z = -17 \\ & 3b + 5y = 29 \\ & -5b = -15 \end{aligned}$$

$$\begin{aligned} 5. \quad & -6a + 6c + 5u = -27 \\ & -2a + 3c = -2 \\ & -3a = -12 \end{aligned}$$

$$\begin{aligned} 2. \quad & -4v + 6x - 2z = -44 \\ & -5v - 3x = 0 \\ & -5v = -15 \end{aligned}$$

$$\begin{aligned} 6. \quad & 3a - c - 6z = -16 \\ & 5a - 2c = -17 \\ & -6a = 18 \end{aligned}$$

$$\begin{aligned} 3. \quad & -5a - 6u + 3v = -8 \\ & 5a + 5u = 0 \\ & 3a = -15 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2a + 5v + x = -27 \\ & 5a + 4v = -38 \\ & 2a = -12 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3a + 3b - u = 34 \\ & -2a - 5b = -35 \\ & -a = -5 \end{aligned}$$

$$\begin{aligned} 8. \quad & 2c - 3v + y = -24 \\ & -c - 4v = -18 \\ & 6c = -12 \end{aligned}$$

Linear Systems (G) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & -3b - 2y - z = -17 \\ & 3b + 5y = 29 \\ & -5b = -15 \\ & b = 3, y = 4, z = 0 \end{aligned}$$

$$\begin{aligned} 5. \quad & -6a + 6c + 5u = -27 \\ & -2a + 3c = -2 \\ & -3a = -12 \\ & a = 4, c = 2, u = -3 \end{aligned}$$

$$\begin{aligned} 2. \quad & -4v + 6x - 2z = -44 \\ & -5v - 3x = 0 \\ & -5v = -15 \\ & v = 3, x = -5, z = 1 \end{aligned}$$

$$\begin{aligned} 6. \quad & 3a - c - 6z = -16 \\ & 5a - 2c = -17 \\ & -6a = 18 \\ & a = -3, c = 1, z = 1 \end{aligned}$$

$$\begin{aligned} 3. \quad & -5a - 6u + 3v = -8 \\ & 5a + 5u = 0 \\ & 3a = -15 \\ & a = -5, u = 5, v = -1 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2a + 5v + x = -27 \\ & 5a + 4v = -38 \\ & 2a = -12 \\ & a = -6, v = -2, x = -5 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3a + 3b - u = 34 \\ & -2a - 5b = -35 \\ & -a = -5 \\ & a = 5, b = 5, u = -4 \end{aligned}$$

$$\begin{aligned} 8. \quad & 2c - 3v + y = -24 \\ & -c - 4v = -18 \\ & 6c = -12 \\ & c = -2, v = 5, y = -5 \end{aligned}$$