

Linear Systems (H)

Solve each system of equations.

$$\begin{aligned} 1. \quad & -4a + 3x + 5z = -29 \\ & -4a + 4x = 4 \\ & -5a = -10 \end{aligned}$$

$$\begin{aligned} 5. \quad & -4u + v - 3x = -12 \\ & u + 3v = -17 \\ & 6u = -12 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3a + b + 5z = 6 \\ & 3a - b = -17 \\ & a = -6 \end{aligned}$$

$$\begin{aligned} 6. \quad & -6c + 6u - 6y = 66 \\ & -5c + u = 21 \\ & -5c = 20 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5b + x + 2y = 1 \\ & 6b - 4x = -2 \\ & -2b = -2 \end{aligned}$$

$$\begin{aligned} 7. \quad & c + u + 5v = 22 \\ & 5c - 3u = -6 \\ & c = 0 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4a - 5b - 2x = -24 \\ & 6a + 4b = 28 \\ & 5a = 10 \end{aligned}$$

$$\begin{aligned} 8. \quad & a - 6b - 6v = 5 \\ & 6a + 4b = -6 \\ & 5a = -5 \end{aligned}$$

Linear Systems (H) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & -4a + 3x + 5z = -29 \\ & -4a + 4x = 4 \\ & -5a = -10 \\ & a = 2, x = 3, z = -6 \end{aligned}$$

$$\begin{aligned} 5. \quad & -4u + v - 3x = -12 \\ & u + 3v = -17 \\ & 6u = -12 \\ & u = -2, v = -5, x = 5 \end{aligned}$$

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

$$\begin{aligned} 6. \quad & -6c + 6u - 6y = 66 \\ & -5c + u = 21 \\ & -5c = 20 \\ & c = -4, u = 1, y = -6 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5b + x + 2y = 1 \\ & 6b - 4x = -2 \\ & -2b = -2 \\ & b = 1, x = 2, y = -3 \end{aligned}$$

$$\begin{aligned} 7. \quad & c + u + 5v = 22 \\ & 5c - 3u = -6 \\ & c = 0 \\ & c = 0, u = 2, v = 4 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4a - 5b - 2x = -24 \\ & 6a + 4b = 28 \\ & 5a = 10 \\ & a = 2, b = 4, x = 6 \end{aligned}$$

$$\begin{aligned} 8. \quad & a - 6b - 6v = 5 \\ & 6a + 4b = -6 \\ & 5a = -5 \\ & a = -1, b = 0, v = -1 \end{aligned}$$