

## Linear Systems (C)

Solve each system of equations.

$$\begin{aligned} 1. \quad & -6v + x + 3y = -11 \\ & -2v + 3x = -17 \\ & v = 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & -5a - 6c - v = -19 \\ & 3a + c = 8 \\ & -3a = -6 \end{aligned}$$

$$\begin{aligned} 2. \quad & -u + 3v + 2z = 18 \\ & 3u + 3v = 12 \\ & -6u = 6 \end{aligned}$$

$$\begin{aligned} 6. \quad & 6a - v + 5y = 34 \\ & -4a - 2v = 2 \\ & 2a = 2 \end{aligned}$$

$$\begin{aligned} 3. \quad & -b - 3x - 3z = 17 \\ & 4b - 2x = 2 \\ & 5b = -10 \end{aligned}$$

$$\begin{aligned} 7. \quad & 4a + 6x + 4y = -46 \\ & -a - 3x = 10 \\ & a = -1 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5c - 3x - 3z = -37 \\ & -4c - 4x = 16 \\ & c = -5 \end{aligned}$$

$$\begin{aligned} 8. \quad & 5c + 6v - 3y = -26 \\ & 4c - 5v = -16 \\ & -2c = 8 \end{aligned}$$

## Linear Systems (C) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & -6v + x + 3y = -11 \\ & -2v + 3x = -17 \\ & v = 1 \\ & v = 1, x = -5, y = 0 \end{aligned}$$

$$\begin{aligned} 5. \quad & -5a - 6c - v = -19 \\ & 3a + c = 8 \\ & -3a = -6 \\ & a = 2, c = 2, v = -3 \end{aligned}$$

$$\begin{aligned} 2. \quad & -u + 3v + 2z = 18 \\ & 3u + 3v = 12 \\ & -6u = 6 \\ & u = -1, v = 5, z = 1 \end{aligned}$$

$$\begin{aligned} 6. \quad & 6a - v + 5y = 34 \\ & -4a - 2v = 2 \\ & 2a = 2 \\ & a = 1, v = -3, y = 5 \end{aligned}$$

$$\begin{aligned} 3. \quad & -b - 3x - 3z = 17 \\ & 4b - 2x = 2 \\ & 5b = -10 \\ & b = -2, x = -5, z = 0 \end{aligned}$$

$$\begin{aligned} 7. \quad & 4a + 6x + 4y = -46 \\ & -a - 3x = 10 \\ & a = -1 \\ & a = -1, x = -3, y = -6 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5c - 3x - 3z = -37 \\ & -4c - 4x = 16 \\ & c = -5 \\ & c = -5, x = 1, z = 3 \end{aligned}$$

$$\begin{aligned} 8. \quad & 5c + 6v - 3y = -26 \\ & 4c - 5v = -16 \\ & -2c = 8 \\ & c = -4, v = 0, y = 2 \end{aligned}$$