

## Linear Systems (D)

Solve each system of equations.

$$\begin{aligned} 1. \quad & 4a - 6u + 6y = -24 \\ & -5a - u = 12 \\ & -6a = 18 \end{aligned}$$

$$\begin{aligned} 5. \quad & a - 3b + 5x = 22 \\ & 6a + 6b = -54 \\ & 5a = -25 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4c + 4v + 4z = 12 \\ & 4c + 4v = 32 \\ & -3c = -6 \end{aligned}$$

$$\begin{aligned} 6. \quad & -c - 3u + 5z = 10 \\ & -4c - 5u = 25 \\ & 5c = 0 \end{aligned}$$

$$\begin{aligned} 3. \quad & -b + 6x - 6z = 0 \\ & -5b + 5x = 5 \\ & -2b = 12 \end{aligned}$$

$$\begin{aligned} 7. \quad & -6a - 5b + 2c = 14 \\ & 5a + b = -1 \\ & -4a = -4 \end{aligned}$$

$$\begin{aligned} 4. \quad & -4a + 4b + 3z = 29 \\ & -3a + 4b = 28 \\ & -4a = 16 \end{aligned}$$

$$\begin{aligned} 8. \quad & -5a + 2v + 4z = 5 \\ & -a + 5v = -29 \\ & -6a = 6 \end{aligned}$$

## Linear Systems (D) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & 4a - 6u + 6y = -24 \\ & -5a - u = 12 \\ & -6a = 18 \\ & a = -3, u = 3, y = 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & a - 3b + 5x = 22 \\ & 6a + 6b = -54 \\ & 5a = -25 \\ & a = -5, b = -4, x = 3 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4c + 4v + 4z = 12 \\ & 4c + 4v = 32 \\ & -3c = -6 \\ & c = 2, v = 6, z = -5 \end{aligned}$$

$$\begin{aligned} 6. \quad & -c - 3u + 5z = 10 \\ & -4c - 5u = 25 \\ & 5c = 0 \\ & c = 0, u = -5, z = -1 \end{aligned}$$

$$\begin{aligned} 3. \quad & -b + 6x - 6z = 0 \\ & -5b + 5x = 5 \\ & -2b = 12 \\ & b = -6, x = -5, z = -4 \end{aligned}$$

$$\begin{aligned} 7. \quad & -6a - 5b + 2c = 14 \\ & 5a + b = -1 \\ & -4a = -4 \\ & a = 1, b = -6, c = -5 \end{aligned}$$

$$\begin{aligned} 4. \quad & -4a + 4b + 3z = 29 \\ & -3a + 4b = 28 \\ & -4a = 16 \\ & a = -4, b = 4, z = -1 \end{aligned}$$

$$\begin{aligned} 8. \quad & -5a + 2v + 4z = 5 \\ & -a + 5v = -29 \\ & -6a = 6 \\ & a = -1, v = -6, z = 3 \end{aligned}$$