

## Linear Systems (H)

Solve each system of equations.

$$\begin{aligned} 1. \quad & 6v + 3x = 0 \\ & 4v - 6x = -16 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3c - u = 3 \\ & -3c - 5u = -39 \end{aligned}$$

$$\begin{aligned} 2. \quad & -2c - 4u = 12 \\ & 3c + u = -13 \end{aligned}$$

$$\begin{aligned} 6. \quad & -6a - 6y = 42 \\ & -6a + 3y = 15 \end{aligned}$$

$$\begin{aligned} 3. \quad & -2u + 2x = 20 \\ & -5u + 4x = 44 \end{aligned}$$

$$\begin{aligned} 7. \quad & -2u - 2z = -18 \\ & -2u + 3z = 2 \end{aligned}$$

$$\begin{aligned} 4. \quad & -u - 5x = -13 \\ & 3u + 4x = 17 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3a - 4u = -9 \\ & 3a + u = 21 \end{aligned}$$

## Linear Systems (H) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & 6v + 3x = 0 \\ & 4v - 6x = -16 \\ & v = -1, x = 2 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3c - u = 3 \\ & -3c - 5u = -39 \\ & c = 3, u = 6 \end{aligned}$$

$$\begin{aligned} 2. \quad & -2c - 4u = 12 \\ & 3c + u = -13 \\ & c = -4, u = -1 \end{aligned}$$

$$\begin{aligned} 6. \quad & -6a - 6y = 42 \\ & -6a + 3y = 15 \\ & a = -4, y = -3 \end{aligned}$$

$$\begin{aligned} 3. \quad & -2u + 2x = 20 \\ & -5u + 4x = 44 \\ & u = -4, x = 6 \end{aligned}$$

$$\begin{aligned} 7. \quad & -2u - 2z = -18 \\ & -2u + 3z = 2 \\ & u = 5, z = 4 \end{aligned}$$

$$\begin{aligned} 4. \quad & -u - 5x = -13 \\ & 3u + 4x = 17 \\ & u = 3, x = 2 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3a - 4u = -9 \\ & 3a + u = 21 \\ & a = 5, u = 6 \end{aligned}$$