

Linear Systems (C)

Solve each system of equations.

1. $4b - u = 3$
 $-3b + u = -3$

5. $5c + 2z = -25$
 $-4c - 4z = 20$

2. $-6c - 2u = -6$
 $-5c - 6u = -18$

6. $-3a + b = -15$
 $2a + 4b = 10$

3. $2x + 6z = 40$
 $4x - 4z = 0$

7. $2b - 2v = -6$
 $-2b + 4v = 2$

4. $-6c + 6y = 6$
 $4c + 6y = -24$

8. $3u + 2y = 4$
 $2u + 3y = 11$

Linear Systems (C) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & 4b - u = 3 \\ & -3b + u = -3 \\ & \textcolor{red}{b = 0, u = -3} \end{aligned}$$

$$\begin{aligned} 5. \quad & 5c + 2z = -25 \\ & -4c - 4z = 20 \\ & \textcolor{red}{c = -5, z = 0} \end{aligned}$$

$$\begin{aligned} 2. \quad & -6c - 2u = -6 \\ & -5c - 6u = -18 \\ & \textcolor{red}{c = 0, u = 3} \end{aligned}$$

$$\begin{aligned} 6. \quad & -3a + b = -15 \\ & 2a + 4b = 10 \\ & \textcolor{red}{a = 5, b = 0} \end{aligned}$$

$$\begin{aligned} 3. \quad & 2x + 6z = 40 \\ & 4x - 4z = 0 \\ & \textcolor{red}{x = 5, z = 5} \end{aligned}$$

$$\begin{aligned} 7. \quad & 2b - 2v = -6 \\ & -2b + 4v = 2 \\ & \textcolor{red}{b = -5, v = -2} \end{aligned}$$

$$\begin{aligned} 4. \quad & -6c + 6y = 6 \\ & 4c + 6y = -24 \\ & \textcolor{red}{c = -3, y = -2} \end{aligned}$$

$$\begin{aligned} 8. \quad & 3u + 2y = 4 \\ & 2u + 3y = 11 \\ & \textcolor{red}{u = -2, y = 5} \end{aligned}$$