

Linear Systems (B)

Solve each system of equations.

1. $-3a - x = 10$
 $-6a = 18$

5. $-5v - 5z = 5$
 $-3v = -9$

2. $-4c + 5z = -42$
 $5c = 15$

6. $-3c - z = 20$
 $-c = 6$

3. $-2b - 3x = 2$
 $-4b = -8$

7. $-c - x = -6$
 $-4c = -8$

4. $2a - y = 11$
 $6a = 30$

8. $-y - z = -2$
 $-y = 4$

Linear Systems (B) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & -3a - x = 10 \\ & -6a = 18 \\ & a = -3, x = -1 \end{aligned}$$

$$\begin{aligned} 5. \quad & -5v - 5z = 5 \\ & -3v = -9 \\ & v = 3, z = -4 \end{aligned}$$

$$\begin{aligned} 2. \quad & -4c + 5z = -42 \\ & 5c = 15 \\ & c = 3, z = -6 \end{aligned}$$

$$\begin{aligned} 6. \quad & -3c - z = 20 \\ & -c = 6 \\ & c = -6, z = -2 \end{aligned}$$

$$\begin{aligned} 3. \quad & -2b - 3x = 2 \\ & -4b = -8 \\ & b = 2, x = -2 \end{aligned}$$

$$\begin{aligned} 7. \quad & -c - x = -6 \\ & -4c = -8 \\ & c = 2, x = 4 \end{aligned}$$

$$\begin{aligned} 4. \quad & 2a - y = 11 \\ & 6a = 30 \\ & a = 5, y = -1 \end{aligned}$$

$$\begin{aligned} 8. \quad & -y - z = -2 \\ & -y = 4 \\ & y = -4, z = 6 \end{aligned}$$