

## Linear Systems (A)

Solve each system of equations.

1.  $-6v - 6y = 66$   
 $2v + 4y = -32$

5.  $2y - 6z = -30$   
 $-y - z = -1$

2.  $3a - 3x = -3$   
 $-5a + x = -3$

6.  $-5a + c = -30$   
 $4a - 5c = 24$

3.  $5a - v = -23$   
 $-a + v = 3$

7.  $-3v + 3x = 12$   
 $3v - 6x = -21$

4.  $-6a - 5v = 46$   
 $-6a - 4v = 44$

8.  $-3v - 3x = 15$   
 $5v + x = -29$

## Linear Systems (A) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & -6v - 6y = 66 \\ & 2v + 4y = -32 \\ & v = -6, y = -5 \end{aligned}$$

$$\begin{aligned} 5. \quad & 2y - 6z = -30 \\ & -y - z = -1 \\ & y = -3, z = 4 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3a - 3x = -3 \\ & -5a + x = -3 \\ & a = 1, x = 2 \end{aligned}$$

$$\begin{aligned} 6. \quad & -5a + c = -30 \\ & 4a - 5c = 24 \\ & a = 6, c = 0 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5a - v = -23 \\ & -a + v = 3 \\ & a = -5, v = -2 \end{aligned}$$

$$\begin{aligned} 7. \quad & -3v + 3x = 12 \\ & 3v - 6x = -21 \\ & v = -1, x = 3 \end{aligned}$$

$$\begin{aligned} 4. \quad & -6a - 5v = 46 \\ & -6a - 4v = 44 \\ & a = -6, v = -2 \end{aligned}$$

$$\begin{aligned} 8. \quad & -3v - 3x = 15 \\ & 5v + x = -29 \\ & v = -6, x = 1 \end{aligned}$$