

## Linear Systems (I)

Solve each system of equations.

1. 
$$\begin{aligned} 2b - y &= 15 \\ -5b - 2y &= -24 \end{aligned}$$

5. 
$$\begin{aligned} 4a - 2u &= 0 \\ 3a - 6u &= -9 \end{aligned}$$

2. 
$$\begin{aligned} 4y - 4z &= -40 \\ -4y + 5z &= 45 \end{aligned}$$

6. 
$$\begin{aligned} -3c - 3y &= -9 \\ 5c - 2y &= -27 \end{aligned}$$

3. 
$$\begin{aligned} -4u + v &= 7 \\ 6u - 4v &= -18 \end{aligned}$$

7. 
$$\begin{aligned} c + 4u &= -8 \\ 4c + 2u &= 10 \end{aligned}$$

4. 
$$\begin{aligned} -6a + z &= 17 \\ 6a - 3z &= -27 \end{aligned}$$

8. 
$$\begin{aligned} 6v - 3y &= -21 \\ -5v + 2y &= 15 \end{aligned}$$

## Linear Systems (I) Answers

Solve each system of equations.

1.  $2b - y = 15$   
 $-5b - 2y = -24$   
 $b = 6, y = -3$

5.  $4a - 2u = 0$   
 $3a - 6u = -9$   
 $a = 1, u = 2$

2.  $4y - 4z = -40$   
 $-4y + 5z = 45$   
 $y = -5, z = 5$

6.  $-3c - 3y = -9$   
 $5c - 2y = -27$   
 $c = -3, y = 6$

3.  $-4u + v = 7$   
 $6u - 4v = -18$   
 $u = -1, v = 3$

7.  $c + 4u = -8$   
 $4c + 2u = 10$   
 $c = 4, u = -3$

4.  $-6a + z = 17$   
 $6a - 3z = -27$   
 $a = -2, z = 5$

8.  $6v - 3y = -21$   
 $-5v + 2y = 15$   
 $v = -1, y = 5$