

Linear Systems (D)

Solve each system of equations.

1. $-5u + 2x = 22$
 $-u - 6x = -34$

5. $6u - 2v = 18$
 $5u - 4v = 8$

2. $3a + 4c = -19$
 $5a + 2c = -13$

6. $5v - 4x = 34$
 $6v - 2x = 24$

3. $-3b - u = -12$
 $-b + 2u = -4$

7. $2a - 4u = 10$
 $3a + u = -6$

4. $-2u + 6x = 0$
 $-4u + 3x = 9$

8. $6a - 5v = -49$
 $-4a - 6v = -14$

Linear Systems (D) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & -5u + 2x = 22 \\ & -u - 6x = -34 \\ & u = -2, x = 6 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6u - 2v = 18 \\ & 5u - 4v = 8 \\ & u = 4, v = 3 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3a + 4c = -19 \\ & 5a + 2c = -13 \\ & a = -1, c = -4 \end{aligned}$$

$$\begin{aligned} 6. \quad & 5v - 4x = 34 \\ & 6v - 2x = 24 \\ & v = 2, x = -6 \end{aligned}$$

$$\begin{aligned} 3. \quad & -3b - u = -12 \\ & -b + 2u = -4 \\ & b = 4, u = 0 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2a - 4u = 10 \\ & 3a + u = -6 \\ & a = -1, u = -3 \end{aligned}$$

$$\begin{aligned} 4. \quad & -2u + 6x = 0 \\ & -4u + 3x = 9 \\ & u = -3, x = -1 \end{aligned}$$

$$\begin{aligned} 8. \quad & 6a - 5v = -49 \\ & -4a - 6v = -14 \\ & a = -4, v = 5 \end{aligned}$$