

Linear Systems (E)

Solve each system of equations.

1. $4b + c = 10$
 $6b + 3c = 24$

5. $2y + 3z = 19$
 $y + 6z = 32$

2. $2c + 6u = 24$
 $4c + 6u = 36$

6. $v + 2x = 15$
 $3v + 5x = 39$

3. $2y + 3z = 18$
 $6y + 4z = 44$

7. $6b + 5x = 40$
 $5b + 4x = 33$

4. $y + 3z = 20$
 $y + 4z = 25$

8. $c + 4y = 18$
 $3c + 4y = 30$

Linear Systems (E) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & 4b + c = 10 \\ & 6b + 3c = 24 \\ & \textcolor{red}{b = 1, c = 6} \end{aligned}$$

$$\begin{aligned} 5. \quad & 2y + 3z = 19 \\ & y + 6z = 32 \\ & \textcolor{red}{y = 2, z = 5} \end{aligned}$$

$$\begin{aligned} 2. \quad & 2c + 6u = 24 \\ & 4c + 6u = 36 \\ & \textcolor{red}{c = 6, u = 2} \end{aligned}$$

$$\begin{aligned} 6. \quad & v + 2x = 15 \\ & 3v + 5x = 39 \\ & \textcolor{red}{v = 3, x = 6} \end{aligned}$$

$$\begin{aligned} 3. \quad & 2y + 3z = 18 \\ & 6y + 4z = 44 \\ & \textcolor{red}{y = 6, z = 2} \end{aligned}$$

$$\begin{aligned} 7. \quad & 6b + 5x = 40 \\ & 5b + 4x = 33 \\ & \textcolor{red}{b = 5, x = 2} \end{aligned}$$

$$\begin{aligned} 4. \quad & y + 3z = 20 \\ & y + 4z = 25 \\ & \textcolor{red}{y = 5, z = 5} \end{aligned}$$

$$\begin{aligned} 8. \quad & c + 4y = 18 \\ & 3c + 4y = 30 \\ & \textcolor{red}{c = 6, y = 3} \end{aligned}$$