

Linear Systems (E)

Solve each system of equations.

1. $3c + 5x + 4z = 46$
 $4c + 4x + 3z = 39$
 $6c + 6x + 5z = 61$

5. $2b + u + 5v = 40$
 $4b + 5u + 6v = 62$
 $b + 3u + v = 16$

2. $2b + y + 4z = 32$
 $3b + 5y + 4z = 61$
 $4b + y + 2z = 34$

6. $3b + 6c + 3x = 30$
 $2b + c + x = 12$
 $3b + 6c + 5x = 40$

3. $3b + 2u + x = 12$
 $6b + 4u + 3x = 26$
 $4b + 5u + 5x = 28$

7. $2c + 6u + 6z = 20$
 $6c + 2u + 3z = 14$
 $c + 2u + 2z = 7$

4. $4c + 3x + 5y = 23$
 $5c + 2x + 5y = 24$
 $2c + 4x + 2y = 16$

8. $5v + 2y + 2z = 25$
 $v + 3y + 5z = 39$
 $6v + 4y + 3z = 42$

Linear Systems (E) Answers

Solve each system of equations.

1. $3c + 5x + 4z = 46$
 $4c + 4x + 3z = 39$
 $6c + 6x + 5z = 61$
 $c = 2, x = 4, z = 5$

5. $2b + u + 5v = 40$
 $4b + 5u + 6v = 62$
 $b + 3u + v = 16$
 $b = 4, u = 2, v = 6$

2. $2b + y + 4z = 32$
 $3b + 5y + 4z = 61$
 $4b + y + 2z = 34$
 $b = 5, y = 6, z = 4$

6. $3b + 6c + 3x = 30$
 $2b + c + x = 12$
 $3b + 6c + 5x = 40$
 $b = 3, c = 1, x = 5$

3. $3b + 2u + x = 12$
 $6b + 4u + 3x = 26$
 $4b + 5u + 5x = 28$
 $b = 2, u = 2, x = 2$

7. $2c + 6u + 6z = 20$
 $6c + 2u + 3z = 14$
 $c + 2u + 2z = 7$
 $c = 1, u = 1, z = 2$

4. $4c + 3x + 5y = 23$
 $5c + 2x + 5y = 24$
 $2c + 4x + 2y = 16$
 $c = 3, x = 2, y = 1$

8. $5v + 2y + 2z = 25$
 $v + 3y + 5z = 39$
 $6v + 4y + 3z = 42$
 $v = 1, y = 6, z = 4$