

Linear Systems (A)

Solve each system of equations.

1. $2b + c + z = 11$
 $3b + 4c + z = 19$
 $3b + 6c + 5z = 43$

5. $5b + 4v + 3y = 52$
 $2b + 2v + 6y = 52$
 $6b + 4v + 2y = 48$

2. $6u + x + 6y = 40$
 $6u + 5x + 6y = 56$
 $5u + 2x + 4y = 35$

6. $2b + v + z = 11$
 $3b + 5v + 5z = 34$
 $5b + 6v + 3z = 42$

3. $2a + 4c + 3x = 37$
 $3a + 3c + 3x = 33$
 $3a + 3c + 6x = 48$

7. $4a + 5c + 4u = 49$
 $4a + 2c + 2u = 28$
 $4a + 3c + 6u = 45$

4. $2u + 6x + 6y = 26$
 $6u + 6x + 5y = 40$
 $3u + 4x + 5y = 26$

8. $6a + 6c + 2v = 52$
 $6a + 3c + v = 41$
 $5a + 2c + 4v = 39$

Linear Systems (A) Answers

Solve each system of equations.

1. $2b + c + z = 11$
 $3b + 4c + z = 19$
 $3b + 6c + 5z = 43$
 $b = 2, c = 2, z = 5$

5. $5b + 4v + 3y = 52$
 $2b + 2v + 6y = 52$
 $6b + 4v + 2y = 48$
 $b = 2, v = 6, y = 6$

2. $6u + x + 6y = 40$
 $6u + 5x + 6y = 56$
 $5u + 2x + 4y = 35$
 $u = 3, x = 4, y = 3$

6. $2b + v + z = 11$
 $3b + 5v + 5z = 34$
 $5b + 6v + 3z = 42$
 $b = 3, v = 4, z = 1$

3. $2a + 4c + 3x = 37$
 $3a + 3c + 3x = 33$
 $3a + 3c + 6x = 48$
 $a = 1, c = 5, x = 5$

7. $4a + 5c + 4u = 49$
 $4a + 2c + 2u = 28$
 $4a + 3c + 6u = 45$
 $a = 3, c = 5, u = 3$

4. $2u + 6x + 6y = 26$
 $6u + 6x + 5y = 40$
 $3u + 4x + 5y = 26$
 $u = 4, x = 1, y = 2$

8. $6a + 6c + 2v = 52$
 $6a + 3c + v = 41$
 $5a + 2c + 4v = 39$
 $a = 5, c = 3, v = 2$