

Linear Systems (J)

Solve each system of equations.

1. $4c + 2y + 4z = 28$
 $6c + 2y = 16$
 $3c = 6$

5. $2b + v + 3y = 16$
 $5b + v = 10$
 $3b = 3$

2. $6b + 6c + 2u = 22$
 $4b + c = 9$
 $4b = 8$

6. $6a + 6b + 2c = 50$
 $5a + 6b = 36$
 $a = 6$

3. $4v + 5x + 4z = 26$
 $2v + 4x = 12$
 $v = 2$

7. $2a + 5u + 3y = 14$
 $a + 2u = 5$
 $2a = 6$

4. $4c + 5y + 6z = 36$
 $2c + 2y = 10$
 $6c = 6$

8. $3b + 5u + 3v = 46$
 $5b + 2u = 15$
 $2b = 2$

Linear Systems (J) Answers

Solve each system of equations.

1. $4c + 2y + 4z = 28$
 $6c + 2y = 16$
 $3c = 6$
 $c = 2, y = 2, z = 4$

5. $2b + v + 3y = 16$
 $5b + v = 10$
 $3b = 3$
 $b = 1, v = 5, y = 3$

2. $6b + 6c + 2u = 22$
 $4b + c = 9$
 $4b = 8$
 $b = 2, c = 1, u = 2$

6. $6a + 6b + 2c = 50$
 $5a + 6b = 36$
 $a = 6$
 $a = 6, b = 1, c = 4$

3. $4v + 5x + 4z = 26$
 $2v + 4x = 12$
 $v = 2$
 $v = 2, x = 2, z = 2$

7. $2a + 5u + 3y = 14$
 $a + 2u = 5$
 $2a = 6$
 $a = 3, u = 1, y = 1$

4. $4c + 5y + 6z = 36$
 $2c + 2y = 10$
 $6c = 6$
 $c = 1, y = 4, z = 2$

8. $3b + 5u + 3v = 46$
 $5b + 2u = 15$
 $2b = 2$
 $b = 1, u = 5, v = 6$