

Linear Systems (A)

Solve each system of equations.

1. $4x + 6y + 5z = 70$
 $4x + 6y = 60$
 $3x = 18$

5. $b + 2u + 3y = 24$
 $5b + 2u = 13$
 $2b = 2$

2. $4u + 3v + 2y = 44$
 $3u + 4v = 36$
 $3u = 12$

6. $a + 3v + 4y = 36$
 $a + 3v = 24$
 $4a = 24$

3. $3b + c + 3u = 22$
 $3b + 6c = 12$
 $5b = 10$

7. $2b + 5v + 4x = 44$
 $3b + 4v = 33$
 $5b = 15$

4. $2v + 4x + 2z = 24$
 $4v + x = 16$
 $6v = 18$

8. $4a + b + 3v = 31$
 $4a + b = 25$
 $5a = 30$

Linear Systems (A) Answers

Solve each system of equations.

1. $4x + 6y + 5z = 70$
 $4x + 6y = 60$
 $3x = 18$
 $x = 6, y = 6, z = 2$

5. $b + 2u + 3y = 24$
 $5b + 2u = 13$
 $2b = 2$
 $b = 1, u = 4, y = 5$

2. $4u + 3v + 2y = 44$
 $3u + 4v = 36$
 $3u = 12$
 $u = 4, v = 6, y = 5$

6. $a + 3v + 4y = 36$
 $a + 3v = 24$
 $4a = 24$
 $a = 6, v = 6, y = 3$

3. $3b + c + 3u = 22$
 $3b + 6c = 12$
 $5b = 10$
 $b = 2, c = 1, u = 5$

7. $2b + 5v + 4x = 44$
 $3b + 4v = 33$
 $5b = 15$
 $b = 3, v = 6, x = 2$

4. $2v + 4x + 2z = 24$
 $4v + x = 16$
 $6v = 18$
 $v = 3, x = 4, z = 1$

8. $4a + b + 3v = 31$
 $4a + b = 25$
 $5a = 30$
 $a = 6, b = 1, v = 2$