

## Sistemas Lineales (A)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 3b + 3c + 5z = 43 \\ & 6b + c + 6z = 61 \\ & 2b + c + 6z = 41 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3b + 2c + 6y = 45 \\ & 2b + 5c + 2y = 46 \\ & 6b + 6c + 6y = 84 \end{aligned}$$

$$\begin{aligned} 2. \quad & 2u + 5x + 3z = 24 \\ & 2u + x + 4z = 18 \\ & 2u + x + z = 12 \end{aligned}$$

$$\begin{aligned} 6. \quad & 6b + x + 4z = 43 \\ & 6b + 6x + 3z = 42 \\ & 5b + 5x + z = 26 \end{aligned}$$

$$\begin{aligned} 3. \quad & a + 2b + 3x = 25 \\ & 5a + b + x = 37 \\ & 6a + 3b + 6x = 72 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3b + 5u + 5y = 67 \\ & 2b + 2u + 2y = 30 \\ & 2b + 4u + 6y = 62 \end{aligned}$$

$$\begin{aligned} 4. \quad & 2a + u + 4z = 34 \\ & 2a + 4u + 6z = 58 \\ & 4a + u + 4z = 40 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3c + 3x + 6y = 42 \\ & 5c + 2x + y = 40 \\ & 6c + 6x + 4y = 68 \end{aligned}$$

## Sistemas Lineales (A) Respuestas

Resuelva cada sistema de ecuaciones.

1.  $3b + 3c + 5z = 43$   
 $6b + c + 6z = 61$   
 $2b + c + 6z = 41$   
 $b = 5, c = 1, z = 5$

5.  $3b + 2c + 6y = 45$   
 $2b + 5c + 2y = 46$   
 $6b + 6c + 6y = 84$   
 $b = 5, c = 6, y = 3$

2.  $2u + 5x + 3z = 24$   
 $2u + x + 4z = 18$   
 $2u + x + z = 12$   
 $u = 4, x = 2, z = 2$

6.  $6b + x + 4z = 43$   
 $6b + 6x + 3z = 42$   
 $5b + 5x + z = 26$   
 $b = 3, x = 1, z = 6$

3.  $a + 2b + 3x = 25$   
 $5a + b + x = 37$   
 $6a + 3b + 6x = 72$   
 $a = 6, b = 2, x = 5$

7.  $3b + 5u + 5y = 67$   
 $2b + 2u + 2y = 30$   
 $2b + 4u + 6y = 62$   
 $b = 4, u = 6, y = 5$

4.  $2a + u + 4z = 34$   
 $2a + 4u + 6z = 58$   
 $4a + u + 4z = 40$   
 $a = 3, u = 4, z = 6$

8.  $3c + 3x + 6y = 42$   
 $5c + 2x + y = 40$   
 $6c + 6x + 4y = 68$   
 $c = 6, x = 4, y = 2$

## Sistemas Lineales (B)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 3a + c + 3u = 31 \\ & 3a + 6c + 3u = 51 \\ & 4a + c + 3u = 35 \end{aligned}$$

$$\begin{aligned} 5. \quad & 2b + 3c + 3z = 27 \\ & 4b + 4c + 2z = 28 \\ & 4b + 6c + 2z = 30 \end{aligned}$$

$$\begin{aligned} 2. \quad & a + c + u = 11 \\ & a + 2c + u = 12 \\ & 3a + 2c + 4u = 36 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4u + 2v + 4z = 46 \\ & 5u + 6v + 4z = 64 \\ & 4u + 4v + z = 40 \end{aligned}$$

$$\begin{aligned} 3. \quad & 6c + 3u + 3v = 27 \\ & 5c + 5u + 5v = 35 \\ & 2c + u + 4v = 18 \end{aligned}$$

$$\begin{aligned} 7. \quad & a + 4b + z = 33 \\ & 5a + b + 4z = 47 \\ & 2a + 5b + 3z = 52 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4u + 2x + 3z = 40 \\ & 2u + 3x + 6z = 46 \\ & 2u + 3x + 2z = 30 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3a + 3b + v = 37 \\ & 2a + 4b + v = 37 \\ & 5a + 4b + 6v = 60 \end{aligned}$$

## Sistemas Lineales (B) Respuestas

Resuelva cada sistema de ecuaciones.

1.  $3a + c + 3u = 31$   
 $3a + 6c + 3u = 51$   
 $4a + c + 3u = 35$   
 $a = 4, c = 4, u = 5$

5.  $2b + 3c + 3z = 27$   
 $4b + 4c + 2z = 28$   
 $4b + 6c + 2z = 30$   
 $b = 3, c = 1, z = 6$

2.  $a + c + u = 11$   
 $a + 2c + u = 12$   
 $3a + 2c + 4u = 36$   
 $a = 6, c = 1, u = 4$

6.  $4u + 2v + 4z = 46$   
 $5u + 6v + 4z = 64$   
 $4u + 4v + z = 40$   
 $u = 6, v = 3, z = 4$

3.  $6c + 3u + 3v = 27$   
 $5c + 5u + 5v = 35$   
 $2c + u + 4v = 18$   
 $c = 2, u = 2, v = 3$

7.  $a + 4b + z = 33$   
 $5a + b + 4z = 47$   
 $2a + 5b + 3z = 52$   
 $a = 5, b = 6, z = 4$

4.  $4u + 2x + 3z = 40$   
 $2u + 3x + 6z = 46$   
 $2u + 3x + 2z = 30$   
 $u = 5, x = 4, z = 4$

8.  $3a + 3b + v = 37$   
 $2a + 4b + v = 37$   
 $5a + 4b + 6v = 60$   
 $a = 6, b = 6, v = 1$

## Sistemas Lineales (C)

Resuelva cada sistema de ecuaciones.

1.  $6a + b + 5c = 63$   
 $5a + 2b + 2c = 44$   
 $3a + 2b + 5c = 47$

5.  $a + 3v + 2z = 29$   
 $4a + 2v + 4z = 36$   
 $2a + 5v + 2z = 42$

2.  $5a + 5c + 4x = 51$   
 $3a + 4c + x = 30$   
 $4a + 2c + x = 22$

6.  $2b + u + 3x = 14$   
 $6b + u + 2x = 16$   
 $5b + 2u + 6x = 29$

3.  $3a + 2c + 3u = 23$   
 $3a + c + 5u = 34$   
 $2a + 5c + 4u = 31$

7.  $3a + 6c + 2v = 60$   
 $3a + 3c + v = 39$   
 $2a + 4c + v = 39$

4.  $3b + 5c + 3z = 56$   
 $6b + 3c + 6z = 84$   
 $3b + c + 6z = 58$

8.  $4a + 2y + 2z = 20$   
 $2a + y + 6z = 20$   
 $a + 6y + 2z = 41$

## Sistemas Lineales (C) Respuestas

Resuelva cada sistema de ecuaciones.

1.  $6a + b + 5c = 63$   
 $5a + 2b + 2c = 44$   
 $3a + 2b + 5c = 47$   
 $a = 6, b = 2, c = 5$

5.  $a + 3v + 2z = 29$   
 $4a + 2v + 4z = 36$   
 $2a + 5v + 2z = 42$   
 $a = 1, v = 6, z = 5$

2.  $5a + 5c + 4x = 51$   
 $3a + 4c + x = 30$   
 $4a + 2c + x = 22$   
 $a = 2, c = 5, x = 4$

6.  $2b + u + 3x = 14$   
 $6b + u + 2x = 16$   
 $5b + 2u + 6x = 29$   
 $b = 1, u = 6, x = 2$

3.  $3a + 2c + 3u = 23$   
 $3a + c + 5u = 34$   
 $2a + 5c + 4u = 31$   
 $a = 1, c = 1, u = 6$

7.  $3a + 6c + 2v = 60$   
 $3a + 3c + v = 39$   
 $2a + 4c + v = 39$   
 $a = 6, c = 6, v = 3$

4.  $3b + 5c + 3z = 56$   
 $6b + 3c + 6z = 84$   
 $3b + c + 6z = 58$   
 $b = 6, c = 4, z = 6$

8.  $4a + 2y + 2z = 20$   
 $2a + y + 6z = 20$   
 $a + 6y + 2z = 41$   
 $a = 1, y = 6, z = 2$

## Sistemas Lineales (D)

Resuelva cada sistema de ecuaciones.

1.  $4b + 5x + 5z = 52$   
 $6b + 6x + 2z = 54$   
 $2b + 2x + z = 19$

5.  $3a + 4b + 4x = 33$   
 $3a + 4b + 3x = 31$   
 $5a + 4b + 2x = 35$

2.  $3b + 5u + v = 51$   
 $6b + 2u + 4v = 66$   
 $3b + 4u + 3v = 57$

6.  $5a + 6b + 5c = 32$   
 $5a + b + c = 10$   
 $5a + 5b + 3c = 24$

3.  $2b + 5c + 3x = 34$   
 $b + 3c + 3x = 24$   
 $5b + c + 4x = 48$

7.  $3b + 3v + 2x = 28$   
 $6b + 3v + 5x = 49$   
 $2b + 3v + 4x = 27$

4.  $6b + 4x + 2z = 30$   
 $2b + 2x + z = 14$   
 $6b + 3x + 3z = 33$

8.  $2u + 4v + 3z = 20$   
 $2u + 6v + 5z = 30$   
 $4u + 6v + 6z = 34$

## Sistemas Lineales (D) Respuestas

Resuelva cada sistema de ecuaciones.

1.  $4b + 5x + 5z = 52$   
 $6b + 6x + 2z = 54$   
 $2b + 2x + z = 19$   
 $b = 3, x = 5, z = 3$

5.  $3a + 4b + 4x = 33$   
 $3a + 4b + 3x = 31$   
 $5a + 4b + 2x = 35$   
 $a = 3, b = 4, x = 2$

2.  $3b + 5u + v = 51$   
 $6b + 2u + 4v = 66$   
 $3b + 4u + 3v = 57$   
 $b = 5, u = 6, v = 6$

6.  $5a + 6b + 5c = 32$   
 $5a + b + c = 10$   
 $5a + 5b + 3c = 24$   
 $a = 1, b = 2, c = 3$

3.  $2b + 5c + 3x = 34$   
 $b + 3c + 3x = 24$   
 $5b + c + 4x = 48$   
 $b = 6, c = 2, x = 4$

7.  $3b + 3v + 2x = 28$   
 $6b + 3v + 5x = 49$   
 $2b + 3v + 4x = 27$   
 $b = 5, v = 3, x = 2$

4.  $6b + 4x + 2z = 30$   
 $2b + 2x + z = 14$   
 $6b + 3x + 3z = 33$   
 $b = 1, x = 3, z = 6$

8.  $2u + 4v + 3z = 20$   
 $2u + 6v + 5z = 30$   
 $4u + 6v + 6z = 34$   
 $u = 1, v = 3, z = 2$



## Sistemas Lineales (E)

Resuelva cada sistema de ecuaciones.

1.  $3a + 2v + 5x = 53$   
 $6a + 2v + 6x = 76$   
 $4a + 2v + 2x = 44$

5.  $4a + 6c + 3x = 62$   
 $6a + c + 2x = 46$   
 $5a + 5c + 6x = 81$

2.  $5a + 4b + 3u = 57$   
 $3a + 2b + 5u = 51$   
 $a + 2b + 3u = 33$

6.  $5c + 4v + y = 51$   
 $6c + 5v + 3y = 73$   
 $4c + 4v + 5y = 70$

3.  $2a + 3b + 3u = 28$   
 $4a + 6b + 3u = 41$   
 $6a + 5b + 4u = 55$

7.  $3a + 5c + 4u = 25$   
 $5a + 5c + 4u = 29$   
 $5a + c + 3u = 16$

4.  $2b + 2x + 6z = 42$   
 $3b + 4x + 4z = 43$   
 $3b + 6x + 6z = 63$

8.  $4c + 2y + 3z = 29$   
 $3c + 6y + z = 38$   
 $4c + 4y + 6z = 54$

## Sistemas Lineales (E) Respuestas

Resuelva cada sistema de ecuaciones.

1.  $3a + 2v + 5x = 53$   
 $6a + 2v + 6x = 76$   
 $4a + 2v + 2x = 44$   
 $a = 6, v = 5, x = 5$

5.  $4a + 6c + 3x = 62$   
 $6a + c + 2x = 46$   
 $5a + 5c + 6x = 81$   
 $a = 5, c = 4, x = 6$

2.  $5a + 4b + 3u = 57$   
 $3a + 2b + 5u = 51$   
 $a + 2b + 3u = 33$   
 $a = 3, b = 6, u = 6$

6.  $5c + 4v + y = 51$   
 $6c + 5v + 3y = 73$   
 $4c + 4v + 5y = 70$   
 $c = 5, v = 5, y = 6$

3.  $2a + 3b + 3u = 28$   
 $4a + 6b + 3u = 41$   
 $6a + 5b + 4u = 55$   
 $a = 5, b = 1, u = 5$

7.  $3a + 5c + 4u = 25$   
 $5a + 5c + 4u = 29$   
 $5a + c + 3u = 16$   
 $a = 2, c = 3, u = 1$

4.  $2b + 2x + 6z = 42$   
 $3b + 4x + 4z = 43$   
 $3b + 6x + 6z = 63$   
 $b = 1, x = 5, z = 5$

8.  $4c + 2y + 3z = 29$   
 $3c + 6y + z = 38$   
 $4c + 4y + 6z = 54$   
 $c = 1, y = 5, z = 5$

## Sistemas Lineales (F)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 4b + 4x + 3z = 24 \\ & 5b + 6x + 3z = 28 \\ & 6b + 5x + 6z = 41 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6u + 2x + z = 23 \\ & u + 4x + 6z = 44 \\ & 3u + 3x + 4z = 35 \end{aligned}$$

$$\begin{aligned} 2. \quad & 2a + 4x + 2y = 30 \\ & 2a + 3x + 6y = 30 \\ & a + 2x + 3y = 17 \end{aligned}$$

$$\begin{aligned} 6. \quad & c + u + 3x = 25 \\ & 2c + 3u + 5x = 49 \\ & 4c + 5u + 6x = 69 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5v + x + 2z = 17 \\ & 4v + 5x + 6z = 48 \\ & 2v + 2x + 5z = 30 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3u + 2y + z = 15 \\ & 6u + 2y + 4z = 30 \\ & 3u + y + z = 13 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5b + 4x + 2y = 43 \\ & 6b + 3x + 6y = 57 \\ & 3b + 4x + 3y = 36 \end{aligned}$$

$$\begin{aligned} 8. \quad & a + 5b + u = 34 \\ & 6a + 3b + 6u = 42 \\ & 6a + 4b + u = 38 \end{aligned}$$

## Sistemas Lineales (F) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 4b + 4x + 3z = 24 \\ & 5b + 6x + 3z = 28 \\ & 6b + 5x + 6z = 41 \\ & b = 2, x = 1, z = 4 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6u + 2x + z = 23 \\ & u + 4x + 6z = 44 \\ & 3u + 3x + 4z = 35 \\ & u = 2, x = 3, z = 5 \end{aligned}$$

$$\begin{aligned} 2. \quad & 2a + 4x + 2y = 30 \\ & 2a + 3x + 6y = 30 \\ & a + 2x + 3y = 17 \\ & a = 6, x = 4, y = 1 \end{aligned}$$

$$\begin{aligned} 6. \quad & c + u + 3x = 25 \\ & 2c + 3u + 5x = 49 \\ & 4c + 5u + 6x = 69 \\ & c = 2, u = 5, x = 6 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5v + x + 2z = 17 \\ & 4v + 5x + 6z = 48 \\ & 2v + 2x + 5z = 30 \\ & v = 1, x = 4, z = 4 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3u + 2y + z = 15 \\ & 6u + 2y + 4z = 30 \\ & 3u + y + z = 13 \\ & u = 3, y = 2, z = 2 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5b + 4x + 2y = 43 \\ & 6b + 3x + 6y = 57 \\ & 3b + 4x + 3y = 36 \\ & b = 5, x = 3, y = 3 \end{aligned}$$

$$\begin{aligned} 8. \quad & a + 5b + u = 34 \\ & 6a + 3b + 6u = 42 \\ & 6a + 4b + u = 38 \\ & a = 2, b = 6, u = 2 \end{aligned}$$

## Sistemas Lineales (G)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6c + 4u + 4z = 38 \\ & c + 6u + 6z = 49 \\ & 4c + 4u + z = 24 \end{aligned}$$

$$\begin{aligned} 5. \quad & 5b + 6c + 4v = 63 \\ & 3b + 4c + 5v = 52 \\ & b + 2c + v = 16 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4a + 2b + 4x = 26 \\ & 5a + 2b + 5x = 32 \\ & 2a + b + 4x = 21 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 5b + 6u = 60 \\ & 6a + 5b + 6u = 70 \\ & 2a + 2b + 6u = 44 \end{aligned}$$

$$\begin{aligned} 3. \quad & 3c + 4v + 3z = 50 \\ & 4c + 6v + 4z = 70 \\ & 4c + v + 2z = 37 \end{aligned}$$

$$\begin{aligned} 7. \quad & 5b + 3c + z = 16 \\ & b + 3c + 5z = 20 \\ & 3b + c + 4z = 14 \end{aligned}$$

$$\begin{aligned} 4. \quad & 2a + 2b + 4v = 18 \\ & 2a + 6b + 5v = 36 \\ & a + 2b + v = 11 \end{aligned}$$

$$\begin{aligned} 8. \quad & 6a + 6x + y = 44 \\ & 6a + x + 6y = 34 \\ & 6a + 5x + 6y = 50 \end{aligned}$$

## Sistemas Lineales (G) Respuestas

Resuelva cada sistema de ecuaciones.

1.  $6c + 4u + 4z = 38$   
 $c + 6u + 6z = 49$   
 $4c + 4u + z = 24$   
 $c = 1, u = 4, z = 4$

5.  $5b + 6c + 4v = 63$   
 $3b + 4c + 5v = 52$   
 $b + 2c + v = 16$   
 $b = 5, c = 3, v = 5$

2.  $4a + 2b + 4x = 26$   
 $5a + 2b + 5x = 32$   
 $2a + b + 4x = 21$   
 $a = 2, b = 1, x = 4$

6.  $4a + 5b + 6u = 60$   
 $6a + 5b + 6u = 70$   
 $2a + 2b + 6u = 44$   
 $a = 5, b = 2, u = 5$

3.  $3c + 4v + 3z = 50$   
 $4c + 6v + 4z = 70$   
 $4c + v + 2z = 37$   
 $c = 6, v = 5, z = 4$

7.  $5b + 3c + z = 16$   
 $b + 3c + 5z = 20$   
 $3b + c + 4z = 14$   
 $b = 1, c = 3, z = 2$

4.  $2a + 2b + 4v = 18$   
 $2a + 6b + 5v = 36$   
 $a + 2b + v = 11$   
 $a = 1, b = 4, v = 2$

8.  $6a + 6x + y = 44$   
 $6a + x + 6y = 34$   
 $6a + 5x + 6y = 50$   
 $a = 3, x = 4, y = 2$

## Sistemas Lineales (H)

Resuelva cada sistema de ecuaciones.

1.  $2b + v + 3x = 17$   
 $6b + 3v + 3x = 45$   
 $3b + v + 2x = 21$

5.  $6b + c + x = 11$   
 $3b + c + 6x = 28$   
 $b + 6c + 3x = 19$

2.  $2a + 5u + 2x = 28$   
 $2a + 2u + 2x = 22$   
 $3a + 2u + 6x = 43$

6.  $5a + 4x + z = 45$   
 $2a + 4x + 5z = 39$   
 $2a + 2x + 3z = 27$

3.  $3a + 6c + 5u = 23$   
 $3a + c + 2u = 15$   
 $3a + 4c + u = 17$

7.  $u + 2x + 2z = 16$   
 $u + 4x + 5z = 36$   
 $u + 3x + 5z = 35$

4.  $5a + 2x + 4z = 41$   
 $a + 4x + 5z = 55$   
 $6a + 4x + z = 36$

8.  $6a + 5v + 6y = 22$   
 $6a + v + 5y = 13$   
 $4a + v + 5y = 11$

## Sistemas Lineales (H) Respuestas

Resuelva cada sistema de ecuaciones.

1.  $2b + v + 3x = 17$   
 $6b + 3v + 3x = 45$   
 $3b + v + 2x = 21$   
 $b = 5, v = 4, x = 1$

5.  $6b + c + x = 11$   
 $3b + c + 6x = 28$   
 $b + 6c + 3x = 19$   
 $b = 1, c = 1, x = 4$

2.  $2a + 5u + 2x = 28$   
 $2a + 2u + 2x = 22$   
 $3a + 2u + 6x = 43$   
 $a = 5, u = 2, x = 4$

6.  $5a + 4x + z = 45$   
 $2a + 4x + 5z = 39$   
 $2a + 2x + 3z = 27$   
 $a = 6, x = 3, z = 3$

3.  $3a + 6c + 5u = 23$   
 $3a + c + 2u = 15$   
 $3a + 4c + u = 17$   
 $a = 4, c = 1, u = 1$

7.  $u + 2x + 2z = 16$   
 $u + 4x + 5z = 36$   
 $u + 3x + 5z = 35$   
 $u = 2, x = 1, z = 6$

4.  $5a + 2x + 4z = 41$   
 $a + 4x + 5z = 55$   
 $6a + 4x + z = 36$   
 $a = 1, x = 6, z = 6$

8.  $6a + 5v + 6y = 22$   
 $6a + v + 5y = 13$   
 $4a + v + 5y = 11$   
 $a = 1, v = 2, y = 1$



## Sistemas Lineales (I)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6a + 4c + u = 56 \\ & 5a + 5c + 6u = 74 \\ & a + c + 4u = 26 \end{aligned}$$

$$\begin{aligned} 5. \quad & 4a + x + 6y = 44 \\ & 5a + 6x + y = 45 \\ & 6a + x + y = 41 \end{aligned}$$

$$\begin{aligned} 2. \quad & 5a + c + 3v = 28 \\ & 2a + 6c + 3v = 52 \\ & 4a + 6c + v = 48 \end{aligned}$$

$$\begin{aligned} 6. \quad & 6b + 3y + 3z = 45 \\ & 3b + y + 3z = 23 \\ & 2b + 6y + 3z = 44 \end{aligned}$$

$$\begin{aligned} 3. \quad & 2a + 4b + 6c = 46 \\ & 5a + 3b + 4c = 40 \\ & 4a + b + 6c = 32 \end{aligned}$$

$$\begin{aligned} 7. \quad & 4c + 5u + 3v = 27 \\ & 6c + 3u + v = 15 \\ & c + 6u + 2v = 19 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3a + 3y + 5z = 48 \\ & 2a + 6y + z = 34 \\ & 4a + 5y + z = 34 \end{aligned}$$

$$\begin{aligned} 8. \quad & 2u + 6y + 3z = 33 \\ & 4u + y + 4z = 31 \\ & 2u + 4y + 4z = 28 \end{aligned}$$

## Sistemas Lineales (I) Respuestas

Resuelva cada sistema de ecuaciones.

1.  $6a + 4c + u = 56$   
 $5a + 5c + 6u = 74$   
 $a + c + 4u = 26$   
 $a = 6, c = 4, u = 4$

5.  $4a + x + 6y = 44$   
 $5a + 6x + y = 45$   
 $6a + x + y = 41$   
 $a = 6, x = 2, y = 3$

2.  $5a + c + 3v = 28$   
 $2a + 6c + 3v = 52$   
 $4a + 6c + v = 48$   
 $a = 2, c = 6, v = 4$

6.  $6b + 3y + 3z = 45$   
 $3b + y + 3z = 23$   
 $2b + 6y + 3z = 44$   
 $b = 4, y = 5, z = 2$

3.  $2a + 4b + 6c = 46$   
 $5a + 3b + 4c = 40$   
 $4a + b + 6c = 32$   
 $a = 2, b = 6, c = 3$

7.  $4c + 5u + 3v = 27$   
 $6c + 3u + v = 15$   
 $c + 6u + 2v = 19$   
 $c = 1, u = 1, v = 6$

4.  $3a + 3y + 5z = 48$   
 $2a + 6y + z = 34$   
 $4a + 5y + z = 34$   
 $a = 2, y = 4, z = 6$

8.  $2u + 6y + 3z = 33$   
 $4u + y + 4z = 31$   
 $2u + 4y + 4z = 28$   
 $u = 6, y = 3, z = 1$

## Sistemas Lineales (J)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 3u + v + 3z = 37 \\ & u + 5v + z = 31 \\ & 4u + v + 5z = 53 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6a + 4v + 4x = 60 \\ & a + 4v + 4x = 50 \\ & 4a + 2v + 6x = 56 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4u + 3v + 5z = 55 \\ & 4u + 4v + 2z = 46 \\ & 4u + 2v + 2z = 34 \end{aligned}$$

$$\begin{aligned} 6. \quad & 5u + 2x + 5y = 41 \\ & u + 4x + y = 19 \\ & u + 6x + 3y = 31 \end{aligned}$$

$$\begin{aligned} 3. \quad & 3u + 5y + 6z = 75 \\ & u + 2y + 5z = 45 \\ & u + 3y + z = 27 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3u + 4y + 3z = 39 \\ & 5u + 3y + 2z = 40 \\ & 5u + 5y + 6z = 56 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5c + 5u + 2y = 65 \\ & 3c + 6u + 4y = 71 \\ & 6c + 6u + 2y = 76 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3a + 4u + 3x = 51 \\ & 6a + 5u + 4x = 72 \\ & 5a + 2u + 5x = 57 \end{aligned}$$

## Sistemas Lineales (J) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 3u + v + 3z = 37 \\ & u + 5v + z = 31 \\ & 4u + v + 5z = 53 \\ & u = 6, v = 4, z = 5 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6a + 4v + 4x = 60 \\ & a + 4v + 4x = 50 \\ & 4a + 2v + 6x = 56 \\ & a = 2, v = 6, x = 6 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4u + 3v + 5z = 55 \\ & 4u + 4v + 2z = 46 \\ & 4u + 2v + 2z = 34 \\ & u = 3, v = 6, z = 5 \end{aligned}$$

$$\begin{aligned} 6. \quad & 5u + 2x + 5y = 41 \\ & u + 4x + y = 19 \\ & u + 6x + 3y = 31 \\ & u = 4, x = 3, y = 3 \end{aligned}$$

$$\begin{aligned} 3. \quad & 3u + 5y + 6z = 75 \\ & u + 2y + 5z = 45 \\ & u + 3y + z = 27 \\ & u = 3, y = 6, z = 6 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3u + 4y + 3z = 39 \\ & 5u + 3y + 2z = 40 \\ & 5u + 5y + 6z = 56 \\ & u = 4, y = 6, z = 1 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5c + 5u + 2y = 65 \\ & 3c + 6u + 4y = 71 \\ & 6c + 6u + 2y = 76 \\ & c = 5, u = 6, y = 5 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3a + 4u + 3x = 51 \\ & 6a + 5u + 4x = 72 \\ & 5a + 2u + 5x = 57 \\ & a = 3, u = 6, x = 6 \end{aligned}$$