

Sistemas Lineales (A)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 2c + v + 6z = -3 \\ & 6c + 3v + 4z = -2 \\ & 6c + 5v + 2z = 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & 5a + 6u + 3y = 20 \\ & 2a + 4u + 3y = 9 \\ & a + 4u + 2y = 4 \end{aligned}$$

$$\begin{aligned} 2. \quad & 5b + 3c + 2v = 3 \\ & b + c + 6v = -5 \\ & 5b + 5c + 6v = -1 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 5c + 6z = -6 \\ & a + 4c + 2z = -7 \\ & 4a + 6c + 3z = -8 \end{aligned}$$

$$\begin{aligned} 3. \quad & 3b + 6v + z = -5 \\ & 4b + 5v + 5z = 3 \\ & b + 4v + 2z = -4 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3a + 4v + x = 17 \\ & 6a + 2v + 3x = 39 \\ & 4a + v + x = 21 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4u + y + 2z = -21 \\ & u + 6y + 3z = -2 \\ & 3u + 3y + 4z = -16 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3b + 2u + 4v = 15 \\ & b + 3u + 5v = 23 \\ & 5b + 5u + 5v = 25 \end{aligned}$$

Sistemas Lineales (A) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 2c + v + 6z = -3 \\ & 6c + 3v + 4z = -2 \\ & 6c + 5v + 2z = 1 \\ & c = -\frac{1}{2}, v = 1, z = -\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 5. \quad & 5a + 6u + 3y = 20 \\ & 2a + 4u + 3y = 9 \\ & a + 4u + 2y = 4 \\ & a = 4, u = -\frac{1}{2}, y = 1 \end{aligned}$$

$$\begin{aligned} 2. \quad & 5b + 3c + 2v = 3 \\ & b + c + 6v = -5 \\ & 5b + 5c + 6v = -1 \\ & b = 1, c = 0, v = -1 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 5c + 6z = -6 \\ & a + 4c + 2z = -7 \\ & 4a + 6c + 3z = -8 \\ & a = 1, c = -2, z = 0 \end{aligned}$$

$$\begin{aligned} 3. \quad & 3b + 6v + z = -5 \\ & 4b + 5v + 5z = 3 \\ & b + 4v + 2z = -4 \\ & b = 2, v = -2, z = 1 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3a + 4v + x = 17 \\ & 6a + 2v + 3x = 39 \\ & 4a + v + x = 21 \\ & a = 4, v = 0, x = 5 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4u + y + 2z = -21 \\ & u + 6y + 3z = -2 \\ & 3u + 3y + 4z = -16 \\ & u = -5, y = 1, z = -1 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3b + 2u + 4v = 15 \\ & b + 3u + 5v = 23 \\ & 5b + 5u + 5v = 25 \\ & b = -1, u = 3, v = 3 \end{aligned}$$

Sistemas Lineales (B)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6a + 3c + 5v = -13 \\ & 4a + 5c + 6v = -9 \\ & 2a + c + 5v = -1 \end{aligned}$$

$$\begin{aligned} 5. \quad & 4b + 4u + 3x = -19 \\ & 4b + 4u + x = -17 \\ & 6b + 4u + 4x = -22 \end{aligned}$$

$$\begin{aligned} 2. \quad & c + 6v + y = 1 \\ & 5c + 6v + 4y = 2 \\ & 6c + 5v + 6y = 6 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 4u + 6v = 8 \\ & 6a + u + 3v = -1 \\ & 6a + 2u + 4v = 2 \end{aligned}$$

$$\begin{aligned} 3. \quad & v + x + 3z = -2 \\ & 4v + 3x + z = -7 \\ & 5v + 5x + z = -10 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3b + 6c + 3u = -24 \\ & b + 4c + u = -16 \\ & 6b + 6c + 5u = -24 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3c + 3u + 3x = 2 \\ & 3c + 3u + 5x = 0 \\ & 6c + 4u + 4x = 4 \end{aligned}$$

$$\begin{aligned} 8. \quad & v + 3x + 2y = -3 \\ & 3v + 3x + 2y = -2 \\ & 3v + 3x + 3y = -3 \end{aligned}$$

Sistemas Lineales (B) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6a + 3c + 5v = -13 \\ & 4a + 5c + 6v = -9 \\ & 2a + c + 5v = -1 \\ & a = -\frac{5}{2}, c = -1, v = 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & 4b + 4u + 3x = -19 \\ & 4b + 4u + x = -17 \\ & 6b + 4u + 4x = -22 \\ & b = -1, u = -3, x = -1 \end{aligned}$$

$$\begin{aligned} 2. \quad & c + 6v + y = 1 \\ & 5c + 6v + 4y = 2 \\ & 6c + 5v + 6y = 6 \\ & c = -2, v = 0, y = 3 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 4u + 6v = 8 \\ & 6a + u + 3v = -1 \\ & 6a + 2u + 4v = 2 \\ & a = 0, u = 5, v = -2 \end{aligned}$$

$$\begin{aligned} 3. \quad & v + x + 3z = -2 \\ & 4v + 3x + z = -7 \\ & 5v + 5x + z = -10 \\ & v = -1, x = -1, z = 0 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3b + 6c + 3u = -24 \\ & b + 4c + u = -16 \\ & 6b + 6c + 5u = -24 \\ & b = 0, c = -4, u = 0 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3c + 3u + 3x = 2 \\ & 3c + 3u + 5x = 0 \\ & 6c + 4u + 4x = 4 \\ & c = \frac{2}{3}, u = 1, x = -1 \end{aligned}$$

$$\begin{aligned} 8. \quad & v + 3x + 2y = -3 \\ & 3v + 3x + 2y = -2 \\ & 3v + 3x + 3y = -3 \\ & v = \frac{1}{2}, x = -\frac{1}{2}, y = -1 \end{aligned}$$

Sistemas Lineales (C)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 2c + 6u + 3y = 2 \\ & 2c + 2u + 3y = -2 \\ & 2c + u + 5y = 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6b + 5c + 6x = -6 \\ & 6b + 5c + 2x = 6 \\ & 3b + 5c + x = 3 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3a + c + 4z = -8 \\ & 5a + 4c + 3z = -6 \\ & 5a + 4c + 5z = -10 \end{aligned}$$

$$\begin{aligned} 6. \quad & 2a + 2c + 2u = 0 \\ & 4a + 4c + u = 0 \\ & a + 6c + 4u = 3 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5u + 6x + 2z = 10 \\ & 6u + x + 5z = -2 \\ & 5u + 2x + 4z = 0 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3x + 5y + 3z = 5 \\ & 3x + y + 5z = 1 \\ & 5x + 5y + 4z = 5 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4c + 5v + z = -25 \\ & 5c + 3v + 6z = -15 \\ & 3c + 2v + 5z = -10 \end{aligned}$$

$$\begin{aligned} 8. \quad & 6u + 6v + 5y = 0 \\ & 2u + 3v + 2y = -1 \\ & 5u + 5v + 4y = 0 \end{aligned}$$

Sistemas Lineales (C) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 2c + 6u + 3y = 2 \\ & 2c + 2u + 3y = -2 \\ & 2c + u + 5y = 1 \\ & c = -5, u = 1, y = 2 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6b + 5c + 6x = -6 \\ & 6b + 5c + 2x = 6 \\ & 3b + 5c + x = 3 \\ & b = 2, c = 0, x = -3 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3a + c + 4z = -8 \\ & 5a + 4c + 3z = -6 \\ & 5a + 4c + 5z = -10 \\ & a = 0, c = 0, z = -2 \end{aligned}$$

$$\begin{aligned} 6. \quad & 2a + 2c + 2u = 0 \\ & 4a + 4c + u = 0 \\ & a + 6c + 4u = 3 \\ & a = -\frac{3}{5}, c = \frac{3}{5}, u = 0 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5u + 6x + 2z = 10 \\ & 6u + x + 5z = -2 \\ & 5u + 2x + 4z = 0 \\ & u = 2, x = 1, z = -3 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3x + 5y + 3z = 5 \\ & 3x + y + 5z = 1 \\ & 5x + 5y + 4z = 5 \\ & x = 0, y = 1, z = 0 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4c + 5v + z = -25 \\ & 5c + 3v + 6z = -15 \\ & 3c + 2v + 5z = -10 \\ & c = 0, v = -5, z = 0 \end{aligned}$$

$$\begin{aligned} 8. \quad & 6u + 6v + 5y = 0 \\ & 2u + 3v + 2y = -1 \\ & 5u + 5v + 4y = 0 \\ & u = 1, v = -1, y = 0 \end{aligned}$$

Sistemas Lineales (D)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6u + 5v + 2z = 9 \\ & 3u + 2v + 4z = 10 \\ & 6u + 2v + 6z = 14 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3a + 6b + 3u = 7 \\ & 6a + 3b + 4u = 6 \\ & 3a + b + 5u = 15 \end{aligned}$$

$$\begin{aligned} 2. \quad & 6c + 6v + x = 36 \\ & 4c + 4v + x = 24 \\ & 5c + 4v + 2x = 26 \end{aligned}$$

$$\begin{aligned} 6. \quad & 5a + 6b + 3u = -13 \\ & 2a + 3b + 3u = -4 \\ & 4a + 2b + u = -9 \end{aligned}$$

$$\begin{aligned} 3. \quad & 2a + 5c + 2u = 10 \\ & 5a + c + 2u = 12 \\ & 4a + 3c + 6u = 14 \end{aligned}$$

$$\begin{aligned} 7. \quad & a + 2c + 2z = -1 \\ & 6a + 2c + 6z = -6 \\ & 6a + 3c + 4z = -6 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5a + 4c + 3v = 15 \\ & 5a + 6c + 6v = 30 \\ & 3a + 2c + 2v = 10 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4u + 2v + y = 24 \\ & 5u + 2v + 3y = 37 \\ & 3u + 5v + 4y = 31 \end{aligned}$$

Sistemas Lineales (D) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6u + 5v + 2z = 9 \\ & 3u + 2v + 4z = 10 \\ & 6u + 2v + 6z = 14 \\ & u = 0, v = 1, z = 2 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3a + 6b + 3u = 7 \\ & 6a + 3b + 4u = 6 \\ & 3a + b + 5u = 15 \\ & a = -\frac{5}{3}, b = 0, u = 4 \end{aligned}$$

$$\begin{aligned} 2. \quad & 6c + 6v + x = 36 \\ & 4c + 4v + x = 24 \\ & 5c + 4v + 2x = 26 \\ & c = 2, v = 4, x = 0 \end{aligned}$$

$$\begin{aligned} 6. \quad & 5a + 6b + 3u = -13 \\ & 2a + 3b + 3u = -4 \\ & 4a + 2b + u = -9 \\ & a = -2, b = -1, u = 1 \end{aligned}$$

$$\begin{aligned} 3. \quad & 2a + 5c + 2u = 10 \\ & 5a + c + 2u = 12 \\ & 4a + 3c + 6u = 14 \\ & a = 2, c = 1, u = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 7. \quad & a + 2c + 2z = -1 \\ & 6a + 2c + 6z = -6 \\ & 6a + 3c + 4z = -6 \\ & a = -1, c = 0, z = 0 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5a + 4c + 3v = 15 \\ & 5a + 6c + 6v = 30 \\ & 3a + 2c + 2v = 10 \\ & a = 0, c = 0, v = 5 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4u + 2v + y = 24 \\ & 5u + 2v + 3y = 37 \\ & 3u + 5v + 4y = 31 \\ & u = 5, v = 0, y = 4 \end{aligned}$$

Sistemas Lineales (E)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6a + v + 2y = 37 \\ & a + 4v + 3y = 8 \\ & 6a + v + 6y = 57 \end{aligned}$$

$$\begin{aligned} 5. \quad & a + 4v + 5x = -5 \\ & 6a + 4v + 6x = -6 \\ & 2a + 5v + x = -1 \end{aligned}$$

$$\begin{aligned} 2. \quad & 2b + 4c + 4y = -12 \\ & 2b + c + 3y = -9 \\ & 2b + 5c + 3y = -13 \end{aligned}$$

$$\begin{aligned} 6. \quad & 3b + 5c + 5x = 12 \\ & 6b + 6c + 4x = 6 \\ & 5b + 2c + 4x = 7 \end{aligned}$$

$$\begin{aligned} 3. \quad & 6a + 3b + 6y = -39 \\ & 2a + b + 4y = -19 \\ & 4a + 4b + 6y = -42 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3a + 3u + 6z = 0 \\ & 3a + u + z = 3 \\ & 3a + 6u + 3z = -1 \end{aligned}$$

$$\begin{aligned} 4. \quad & a + 6u + y = 1 \\ & 3a + 2u + 4y = -18 \\ & 2a + 3u + 6y = -27 \end{aligned}$$

$$\begin{aligned} 8. \quad & 2c + 4v + 3x = -1 \\ & 6c + 4v + 3x = -3 \\ & 6c + 6v + 3x = -4 \end{aligned}$$

Sistemas Lineales (E) Respuestas

Resuelva cada sistema de ecuaciones.

1. $6a + v + 2y = 37$

$$a + 4v + 3y = 8$$

$$6a + v + 6y = 57$$

$$a = 5, v = -3, y = 5$$

5. $a + 4v + 5x = -5$

$$6a + 4v + 6x = -6$$

$$2a + 5v + x = -1$$

$$a = 0, v = 0, x = -1$$

2. $2b + 4c + 4y = -12$

$$2b + c + 3y = -9$$

$$2b + 5c + 3y = -13$$

$$b = -4, c = -1, y = 0$$

6. $3b + 5c + 5x = 12$

$$6b + 6c + 4x = 6$$

$$5b + 2c + 4x = 7$$

$$b = -1, c = 0, x = 3$$

3. $6a + 3b + 6y = -39$

$$2a + b + 4y = -19$$

$$4a + 4b + 6y = -42$$

$$a = -1, b = -5, y = -3$$

7. $3a + 3u + 6z = 0$

$$3a + u + z = 3$$

$$3a + 6u + 3z = -1$$

$$a = \frac{4}{3}, u = -\frac{2}{3}, z = -\frac{1}{3}$$

4. $a + 6u + y = 1$

$$3a + 2u + 4y = -18$$

$$2a + 3u + 6y = -27$$

$$a = 0, u = 1, y = -5$$

8. $2c + 4v + 3x = -1$

$$6c + 4v + 3x = -3$$

$$6c + 6v + 3x = -4$$

$$c = -\frac{1}{2}, v = -\frac{1}{2}, x = \frac{2}{3}$$

Sistemas Lineales (F)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 2a + 4c + 4v = -9 \\ & 4a + 5c + 4v = -10 \\ & 4a + 2c + 2v = -6 \end{aligned}$$

$$\begin{aligned} 5. \quad & 5a + 6b + x = 1 \\ & a + 2b + 4x = 1 \\ & 4a + 6b + 6x = 2 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3c + v + y = 11 \\ & 6c + 6v + 2y = 26 \\ & c + 3v + 6y = -5 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 6c + 2y = -15 \\ & a + 3c + 4y = -15 \\ & 5a + c + 2y = -14 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4a + 5b + 3y = -5 \\ & a + 3b + 6y = -10 \\ & 6a + 5b + 5y = -11 \end{aligned}$$

$$\begin{aligned} 7. \quad & 6a + 5v + 6x = 4 \\ & 6a + v + 6x = 4 \\ & 3a + v + 6x = 6 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3b + 5v + z = -11 \\ & 6b + 6v + 2z = -18 \\ & 2b + v + 2z = -5 \end{aligned}$$

$$\begin{aligned} 8. \quad & a + 3b + 3c = -5 \\ & a + 2b + 4c = -7 \\ & a + 2b + 2c = -5 \end{aligned}$$

Sistemas Lineales (F) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 2a + 4c + 4v = -9 \\ & 4a + 5c + 4v = -10 \\ & 4a + 2c + 2v = -6 \\ & a = -\frac{1}{2}, c = 0, v = -2 \end{aligned}$$

$$\begin{aligned} 5. \quad & 5a + 6b + x = 1 \\ & a + 2b + 4x = 1 \\ & 4a + 6b + 6x = 2 \\ & a = -1, b = 1, x = 0 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3c + v + y = 11 \\ & 6c + 6v + 2y = 26 \\ & c + 3v + 6y = -5 \\ & c = 4, v = 1, y = -2 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 6c + 2y = -15 \\ & a + 3c + 4y = -15 \\ & 5a + c + 2y = -14 \\ & a = -\frac{3}{2}, c = -\frac{1}{2}, y = -3 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4a + 5b + 3y = -5 \\ & a + 3b + 6y = -10 \\ & 6a + 5b + 5y = -11 \\ & a = -1, b = 1, y = -2 \end{aligned}$$

$$\begin{aligned} 7. \quad & 6a + 5v + 6x = 4 \\ & 6a + v + 6x = 4 \\ & 3a + v + 6x = 6 \\ & a = -\frac{2}{3}, v = 0, x = \frac{4}{3} \end{aligned}$$

$$\begin{aligned} 4. \quad & 3b + 5v + z = -11 \\ & 6b + 6v + 2z = -18 \\ & 2b + v + 2z = -5 \\ & b = -2, v = -1, z = 0 \end{aligned}$$

$$\begin{aligned} 8. \quad & a + 3b + 3c = -5 \\ & a + 2b + 4c = -7 \\ & a + 2b + 2c = -5 \\ & a = -5, b = 1, c = -1 \end{aligned}$$

Sistemas Lineales (G)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 4u + 6v + 6z = -1 \\ & 5u + 5v + 3z = -4 \\ & 5u + v + 3z = -12 \end{aligned}$$

$$\begin{aligned} 5. \quad & 2b + 5u + 5z = -17 \\ & 3b + 5u + 4z = -13 \\ & b + 4u + 3z = -8 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4a + 2b + 5v = 14 \\ & 6a + 2b + 4v = 12 \\ & 5a + 5b + v = 12 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 3b + 4z = 8 \\ & 3a + 4b + 6z = 2 \\ & 2a + b + 6z = 10 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4u + 4x + 5y = -9 \\ & 4u + x + 6y = -13 \\ & u + x + 2y = -3 \end{aligned}$$

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

$$\begin{aligned} 4. \quad & c + v + 3z = 3 \\ & 3c + 4v + 2z = 1 \\ & c + 2v + 2z = 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4a + 6c + 3z = -2 \\ & 4a + 2c + 5z = 2 \\ & 2a + 6c + 5z = 6 \end{aligned}$$

Sistemas Lineales (G) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 4u + 6v + 6z = -1 \\ & 5u + 5v + 3z = -4 \\ & 5u + v + 3z = -12 \\ & u = -\frac{5}{2}, v = 2, z = -\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 5. \quad & 2b + 5u + 5z = -17 \\ & 3b + 5u + 4z = -13 \\ & b + 4u + 3z = -8 \\ & b = -1, u = 2, z = -5 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4a + 2b + 5v = 14 \\ & 6a + 2b + 4v = 12 \\ & 5a + 5b + v = 12 \\ & a = 0, b = 2, v = 2 \end{aligned}$$

$$\begin{aligned} 6. \quad & 4a + 3b + 4z = 8 \\ & 3a + 4b + 6z = 2 \\ & 2a + b + 6z = 10 \\ & a = 4, b = -4, z = 1 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4u + 4x + 5y = -9 \\ & 4u + x + 6y = -13 \\ & u + x + 2y = -3 \\ & u = -2, x = 1, y = -1 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2b + 5v + 2y = 7 \\ & 3b + v + 6y = 4 \\ & b + 3v + 4y = 4 \\ & b = 1, v = 1, y = 0 \end{aligned}$$

$$\begin{aligned} 4. \quad & c + v + 3z = 3 \\ & 3c + 4v + 2z = 1 \\ & c + 2v + 2z = 1 \\ & c = 1, v = -1, z = 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4a + 6c + 3z = -2 \\ & 4a + 2c + 5z = 2 \\ & 2a + 6c + 5z = 6 \\ & a = -2, c = 0, z = 2 \end{aligned}$$

Sistemas Lineales (H)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6a + 6c + 6z = -39 \\ & 2a + 2c + 4z = -21 \\ & 3a + 6c + z = -16 \end{aligned}$$

$$\begin{aligned} 5. \quad & 5u + 2x + y = -2 \\ & u + 2x + y = 2 \\ & 5u + 6x + 5y = 10 \end{aligned}$$

$$\begin{aligned} 2. \quad & 2u + 6v + x = 3 \\ & 3u + 4v + 4x = 2 \\ & u + 4v + 5x = 2 \end{aligned}$$

$$\begin{aligned} 6. \quad & 2b + 5v + 6y = 20 \\ & 6b + 3v + 4y = 4 \\ & b + v + 6y = 22 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5b + 5u + z = -1 \\ & 4b + 4u + 5z = -5 \\ & 5b + 4u + z = -3 \end{aligned}$$

$$\begin{aligned} 7. \quad & 4u + 5x + 4y = -21 \\ & 3u + x + 6y = -10 \\ & 5u + 3x + 4y = -24 \end{aligned}$$

$$\begin{aligned} 4. \quad & 6b + 5v + 4y = 4 \\ & 4b + v + 3y = -7 \\ & b + 4v + 3y = 11 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3b + 2c + 2y = -9 \\ & 6b + 4c + 5y = -23 \\ & 4b + 2c + y = -3 \end{aligned}$$

Sistemas Lineales (H) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6a + 6c + 6z = -39 \\ & 2a + 2c + 4z = -21 \\ & 3a + 6c + z = -16 \\ & a = -1, c = -\frac{3}{2}, z = -4 \end{aligned}$$

$$\begin{aligned} 5. \quad & 5u + 2x + y = -2 \\ & u + 2x + y = 2 \\ & 5u + 6x + 5y = 10 \\ & u = -1, x = 0, y = 3 \end{aligned}$$

$$\begin{aligned} 2. \quad & 2u + 6v + x = 3 \\ & 3u + 4v + 4x = 2 \\ & u + 4v + 5x = 2 \\ & u = 0, v = \frac{1}{2}, x = 0 \end{aligned}$$

$$\begin{aligned} 6. \quad & 2b + 5v + 6y = 20 \\ & 6b + 3v + 4y = 4 \\ & b + v + 6y = 22 \\ & b = -2, v = 0, y = 4 \end{aligned}$$

$$\begin{aligned} 3. \quad & 5b + 5u + z = -1 \\ & 4b + 4u + 5z = -5 \\ & 5b + 4u + z = -3 \\ & b = -2, u = 2, z = -1 \end{aligned}$$

$$\begin{aligned} 7. \quad & 4u + 5x + 4y = -21 \\ & 3u + x + 6y = -10 \\ & 5u + 3x + 4y = -24 \\ & u = -5, x = -1, y = 1 \end{aligned}$$

$$\begin{aligned} 4. \quad & 6b + 5v + 4y = 4 \\ & 4b + v + 3y = -7 \\ & b + 4v + 3y = 11 \\ & b = -2, v = 4, y = -1 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3b + 2c + 2y = -9 \\ & 6b + 4c + 5y = -23 \\ & 4b + 2c + y = -3 \\ & b = 1, c = -1, y = -5 \end{aligned}$$

Sistemas Lineales (I)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 2a + 5x + 6y = -8 \\ & 2a + 2x + 4y = 2 \\ & 2a + 6x + 4y = -10 \end{aligned}$$

$$\begin{aligned} 5. \quad & 5c + 4v + 5z = -10 \\ & c + 4v + 5z = -6 \\ & 5c + 3v + 4z = -9 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4a + c + 2v = -15 \\ & 2a + 2c + 5v = -6 \\ & 5a + 3c + 4v = -17 \end{aligned}$$

$$\begin{aligned} 6. \quad & b + 5c + 4y = 10 \\ & 3b + 3c + 6y = 6 \\ & 4b + 4c + 6y = 8 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4b + y + 2z = -6 \\ & 6b + 5y + 3z = -9 \\ & 2b + 3y + 2z = 0 \end{aligned}$$

$$\begin{aligned} 7. \quad & 5b + 2u + 4y = 5 \\ & b + 5u + 6y = 24 \\ & 3b + 6u + 4y = 27 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3b + 6x + 2y = 7 \\ & 3b + 6x + 3y = 8 \\ & 2b + 3x + 4y = 7 \end{aligned}$$

$$\begin{aligned} 8. \quad & 2a + 3u + 2x = 0 \\ & 6a + 6u + 4x = 2 \\ & 3a + 6u + 5x = -4 \end{aligned}$$

Sistemas Lineales (I) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 2a + 5x + 6y = -8 \\ & 2a + 2x + 4y = 2 \\ & 2a + 6x + 4y = -10 \\ & a = 5, x = -3, y = -\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 5. \quad & 5c + 4v + 5z = -10 \\ & c + 4v + 5z = -6 \\ & 5c + 3v + 4z = -9 \\ & c = -1, v = 0, z = -1 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4a + c + 2v = -15 \\ & 2a + 2c + 5v = -6 \\ & 5a + 3c + 4v = -17 \\ & a = -4, c = 1, v = 0 \end{aligned}$$

$$\begin{aligned} 6. \quad & b + 5c + 4y = 10 \\ & 3b + 3c + 6y = 6 \\ & 4b + 4c + 6y = 8 \\ & b = 0, c = 2, y = 0 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4b + y + 2z = -6 \\ & 6b + 5y + 3z = -9 \\ & 2b + 3y + 2z = 0 \\ & b = -3, y = 0, z = 3 \end{aligned}$$

$$\begin{aligned} 7. \quad & 5b + 2u + 4y = 5 \\ & b + 5u + 6y = 24 \\ & 3b + 6u + 4y = 27 \\ & b = -1, u = 5, y = 0 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3b + 6x + 2y = 7 \\ & 3b + 6x + 3y = 8 \\ & 2b + 3x + 4y = 7 \\ & b = 1, x = \frac{1}{3}, y = 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & 2a + 3u + 2x = 0 \\ & 6a + 6u + 4x = 2 \\ & 3a + 6u + 5x = -4 \\ & a = 1, u = \frac{4}{3}, x = -3 \end{aligned}$$

Sistemas Lineales (J)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6u + 4v + 4x = 14 \\ & 3u + 6v + x = 27 \\ & 3u + v + 4x = 2 \end{aligned}$$

$$\begin{aligned} 5. \quad & 2b + 3u + 3z = -25 \\ & 6b + 3u + 5z = -29 \\ & 4b + 5u + 4z = -37 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3a + 5v + 6z = 2 \\ & 4a + 2v + 6z = 10 \\ & 2a + 4v + 2z = -2 \end{aligned}$$

$$\begin{aligned} 6. \quad & a + 6b + 3u = -2 \\ & 3a + 3b + 5u = 5 \\ & 3a + 6b + u = -2 \end{aligned}$$

$$\begin{aligned} 3. \quad & v + 3x + 2y = 11 \\ & 3v + 3x + 5y = 14 \\ & 6v + 6x + 4y = 22 \end{aligned}$$

$$\begin{aligned} 7. \quad & c + 2y + 6z = -23 \\ & 6c + y + 5z = -27 \\ & 5c + 2y + 2z = -7 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4c + u + x = 9 \\ & 4c + 2u + 4x = 12 \\ & 3c + 4u + 6x = 12 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4c + 2x + 5y = 1 \\ & 3c + x + 6y = 0 \\ & 4c + 6x + y = 7 \end{aligned}$$

Sistemas Lineales (J) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6u + 4v + 4x = 14 \\ & 3u + 6v + x = 27 \\ & 3u + v + 4x = 2 \\ & u = -1, v = 5, x = 0 \end{aligned}$$

$$\begin{aligned} 5. \quad & 2b + 3u + 3z = -25 \\ & 6b + 3u + 5z = -29 \\ & 4b + 5u + 4z = -37 \\ & b = 1, u = -5, z = -4 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3a + 5v + 6z = 2 \\ & 4a + 2v + 6z = 10 \\ & 2a + 4v + 2z = -2 \\ & a = 2, v = -2, z = 1 \end{aligned}$$

$$\begin{aligned} 6. \quad & a + 6b + 3u = -2 \\ & 3a + 3b + 5u = 5 \\ & 3a + 6b + u = -2 \\ & a = 1, b = -1, u = 1 \end{aligned}$$

$$\begin{aligned} 3. \quad & v + 3x + 2y = 11 \\ & 3v + 3x + 5y = 14 \\ & 6v + 6x + 4y = 22 \\ & v = 0, x = 3, y = 1 \end{aligned}$$

$$\begin{aligned} 7. \quad & c + 2y + 6z = -23 \\ & 6c + y + 5z = -27 \\ & 5c + 2y + 2z = -7 \\ & c = -1, y = 4, z = -5 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4c + u + x = 9 \\ & 4c + 2u + 4x = 12 \\ & 3c + 4u + 6x = 12 \\ & c = 2, u = 0, x = 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4c + 2x + 5y = 1 \\ & 3c + x + 6y = 0 \\ & 4c + 6x + y = 7 \\ & c = -\frac{1}{2}, x = \frac{3}{2}, y = 0 \end{aligned}$$