

## Sistemas Lineales (A)

Resuelva cada sistema de ecuaciones.

1.  $5u + x = -10$   
 $3u + 3x = 0$

5.  $3c + 2x = 2$   
 $2c + 4x = 4$

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

6.  $6c + 3u = -9$   
 $4c + 3u = -10$

3.  $2v + 5x = 0$   
 $6v + 5x = -8$

7.  $3c + 2x = 5$   
 $2c + 4x = 6$

4.  $4c + 6z = -12$   
 $5c + 3z = -9$

8.  $4b + 4c = -5$   
 $4b + 5c = -6$

## Sistemas Lineales (A) Respuestas

Resuelva cada sistema de ecuaciones.

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

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

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

$$\begin{aligned} 6. \quad & 6c + 3u = -9 \\ & 4c + 3u = -10 \\ & c = \frac{1}{2}, u = -4 \end{aligned}$$

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

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

$$\begin{aligned} 4. \quad & 4c + 6z = -12 \\ & 5c + 3z = -9 \\ & c = -1, z = -\frac{4}{3} \end{aligned}$$

$$\begin{aligned} 8. \quad & 4b + 4c = -5 \\ & 4b + 5c = -6 \\ & b = -\frac{1}{4}, c = -1 \end{aligned}$$

## Sistemas Lineales (B)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 3c + 5z = -15 \\ & 5c + 3z = -9 \end{aligned}$$

$$\begin{aligned} 5. \quad & c + 6u = -17 \\ & 6c + 6u = -12 \end{aligned}$$

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

$$\begin{aligned} 6. \quad & 2u + 4y = 8 \\ & 5u + 2y = 24 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4c + 3x = -7 \\ & 6c + 3x = -6 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3u + 6x = -3 \\ & 2u + 2x = 0 \end{aligned}$$

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

$$\begin{aligned} 8. \quad & u + 6x = 5 \\ & u + 2x = 1 \end{aligned}$$

## Sistemas Lineales (B) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 3c + 5z = -15 \\ & 5c + 3z = -9 \\ & c = 0, z = -3 \end{aligned}$$

$$\begin{aligned} 5. \quad & c + 6u = -17 \\ & 6c + 6u = -12 \\ & c = 1, u = -3 \end{aligned}$$

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

$$\begin{aligned} 6. \quad & 2u + 4y = 8 \\ & 5u + 2y = 24 \\ & u = 5, y = -\frac{1}{2} \end{aligned}$$

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

$$\begin{aligned} 7. \quad & 3u + 6x = -3 \\ & 2u + 2x = 0 \\ & u = 1, x = -1 \end{aligned}$$

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

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

## Sistemas Lineales (C)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6v + 4x = 16 \\ & 3v + 3x = 9 \end{aligned}$$

$$\begin{aligned} 5. \quad & 4x + 4y = -2 \\ & 4x + 5y = 0 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3b + u = -7 \\ & 6b + 5u = -26 \end{aligned}$$

$$\begin{aligned} 6. \quad & a + 3v = 6 \\ & 6a + 6v = 12 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4y + z = 0 \\ & 6y + 6z = 6 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3u + 5x = 8 \\ & 5u + 5x = 14 \end{aligned}$$

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

$$\begin{aligned} 8. \quad & 5c + v = -4 \\ & 4c + 4v = 0 \end{aligned}$$

## Sistemas Lineales (C) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6v + 4x = 16 \\ & 3v + 3x = 9 \\ & v = 2, x = 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & 4x + 4y = -2 \\ & 4x + 5y = 0 \\ & x = -\frac{5}{2}, y = 2 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3b + u = -7 \\ & 6b + 5u = -26 \\ & b = -1, u = -4 \end{aligned}$$

$$\begin{aligned} 6. \quad & a + 3v = 6 \\ & 6a + 6v = 12 \\ & a = 0, v = 2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4y + z = 0 \\ & 6y + 6z = 6 \\ & y = -\frac{1}{3}, z = \frac{4}{3} \end{aligned}$$

$$\begin{aligned} 7. \quad & 3u + 5x = 8 \\ & 5u + 5x = 14 \\ & u = 3, x = -\frac{1}{5} \end{aligned}$$

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

$$\begin{aligned} 8. \quad & 5c + v = -4 \\ & 4c + 4v = 0 \\ & c = -1, v = 1 \end{aligned}$$

## Sistemas Lineales (D)

Resuelva cada sistema de ecuaciones.

1.  $5b + 2c = 0$   
 $b + 2c = 0$

5.  $4v + 5z = 4$   
 $v + 3z = 1$

2.  $6b + 2y = -3$   
 $b + 2y = -3$

6.  $2u + 4z = 2$   
 $6u + 5z = -1$

3.  $5v + 3x = -9$   
 $6v + 6x = -18$

7.  $5a + 4b = -17$   
 $6a + b = -9$

4.  $3a + 3y = 6$   
 $5a + 3y = 8$

8.  $3c + 3u = -3$   
 $2c + 3u = -2$

## Sistemas Lineales (D) Respuestas

Resuelva cada sistema de ecuaciones.

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

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

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

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

$$\begin{aligned} 3. \quad & 5v + 3x = -9 \\ & 6v + 6x = -18 \\ & v = 0, x = -3 \end{aligned}$$

$$\begin{aligned} 7. \quad & 5a + 4b = -17 \\ & 6a + b = -9 \\ & a = -1, b = -3 \end{aligned}$$

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

$$\begin{aligned} 8. \quad & 3c + 3u = -3 \\ & 2c + 3u = -2 \\ & c = -1, u = 0 \end{aligned}$$



## Sistemas Lineales (E)

Resuelva cada sistema de ecuaciones.

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

$$\begin{aligned} 5. \quad & 2c + 2u = 5 \\ & 3c + 4u = 9 \end{aligned}$$

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

$$\begin{aligned} 6. \quad & 6b + 2c = -30 \\ & b + 3c = -5 \end{aligned}$$

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

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

$$\begin{aligned} 4. \quad & 2v + 6x = -12 \\ & 3v + 3x = -6 \end{aligned}$$

$$\begin{aligned} 8. \quad & 2b + 6v = 24 \\ & b + 2v = 8 \end{aligned}$$

## Sistemas Lineales (E) Respuestas

Resuelva cada sistema de ecuaciones.

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

$$\begin{aligned} 5. \quad & 2c + 2u = 5 \\ & 3c + 4u = 9 \\ & c = 1, u = \frac{3}{2} \end{aligned}$$

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

$$\begin{aligned} 6. \quad & 6b + 2c = -30 \\ & b + 3c = -5 \\ & b = -5, c = 0 \end{aligned}$$

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

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

$$\begin{aligned} 4. \quad & 2v + 6x = -12 \\ & 3v + 3x = -6 \\ & v = 0, x = -2 \end{aligned}$$

$$\begin{aligned} 8. \quad & 2b + 6v = 24 \\ & b + 2v = 8 \\ & b = 0, v = 4 \end{aligned}$$

## Sistemas Lineales (F)

Resuelva cada sistema de ecuaciones.

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

$$\begin{aligned} 5. \quad & a + 5y = 10 \\ & 2a + 2y = 4 \end{aligned}$$

$$\begin{aligned} 2. \quad & c + 2z = -9 \\ & 6c + 6z = -24 \end{aligned}$$

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

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

$$\begin{aligned} 7. \quad & v + y = 1 \\ & 5v + 2y = 5 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4a + 4u = 8 \\ & 3a + 6u = 12 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4x + y = -22 \\ & 3x + 3y = -21 \end{aligned}$$

## Sistemas Lineales (F) Respuestas

Resuelva cada sistema de ecuaciones.

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

$$\begin{aligned} 5. \quad & a + 5y = 10 \\ & 2a + 2y = 4 \\ & a = 0, y = 2 \end{aligned}$$

$$\begin{aligned} 2. \quad & c + 2z = -9 \\ & 6c + 6z = -24 \\ & c = 1, z = -5 \end{aligned}$$

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

$$\begin{aligned} 3. \quad & 6x + 6y = 6 \\ & 4x + 6y = 4 \\ & x = 1, y = 0 \end{aligned}$$

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

$$\begin{aligned} 4. \quad & 4a + 4u = 8 \\ & 3a + 6u = 12 \\ & a = 0, u = 2 \end{aligned}$$

$$\begin{aligned} 8. \quad & 4x + y = -22 \\ & 3x + 3y = -21 \\ & x = -5, y = -2 \end{aligned}$$

## Sistemas Lineales (G)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & 6x + 6z = 6 \\ & x + 6z = -4 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6u + x = -13 \\ & 4u + 2x = -10 \end{aligned}$$

$$\begin{aligned} 2. \quad & x + 6z = -6 \\ & 5x + 2z = -16 \end{aligned}$$

$$\begin{aligned} 6. \quad & 5b + c = -24 \\ & 5b + 5c = -20 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4b + 4v = -16 \\ & 5b + 4v = -20 \end{aligned}$$

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

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

$$\begin{aligned} 8. \quad & 3a + 5c = 3 \\ & 3a + c = 0 \end{aligned}$$

## Sistemas Lineales (G) Respuestas

Resuelva cada sistema de ecuaciones.

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

$$\begin{aligned} 5. \quad & 6u + x = -13 \\ & 4u + 2x = -10 \\ & u = -2, x = -1 \end{aligned}$$

$$\begin{aligned} 2. \quad & x + 6z = -6 \\ & 5x + 2z = -16 \\ & x = -3, z = -\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 6. \quad & 5b + c = -24 \\ & 5b + 5c = -20 \\ & b = -5, c = 1 \end{aligned}$$

$$\begin{aligned} 3. \quad & 4b + 4v = -16 \\ & 5b + 4v = -20 \\ & b = -4, v = 0 \end{aligned}$$

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

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

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

## Sistemas Lineales (H)

Resuelva cada sistema de ecuaciones.

1.  $5a + 5b = -10$   
 $a + 5b = -8$

5.  $3c + 6y = 6$   
 $3c + 4y = 8$

2.  $5v + 6x = 15$   
 $6v + 5x = 18$

6.  $4c + 4u = 12$   
 $4c + 3u = 12$

3.  $3c + 6z = -6$   
 $6c + 6z = -6$

7.  $4b + 6c = 19$   
 $4b + 2c = 9$

4.  $6a + 3c = -10$   
 $3a + 3c = -7$

8.  $a + c = 9$   
 $3a + c = 19$

## Sistemas Lineales (H) Respuestas

Resuelva cada sistema de ecuaciones.

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

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

$$\begin{aligned} 2. \quad & 5v + 6x = 15 \\ & 6v + 5x = 18 \\ & v = 3, x = 0 \end{aligned}$$

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

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

$$\begin{aligned} 7. \quad & 4b + 6c = 19 \\ & 4b + 2c = 9 \\ & b = 1, c = \frac{5}{2} \end{aligned}$$

$$\begin{aligned} 4. \quad & 6a + 3c = -10 \\ & 3a + 3c = -7 \\ & a = -1, c = -\frac{4}{3} \end{aligned}$$

$$\begin{aligned} 8. \quad & a + c = 9 \\ & 3a + c = 19 \\ & a = 5, c = 4 \end{aligned}$$



# Sistemas Lineales (I)

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad c + 4z &= 5 \\ 2c + 4z &= 10 \end{aligned}$$

$$\begin{aligned} 5. \quad 3b + 5y &= -20 \\ 6b + 4y &= -16 \end{aligned}$$

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

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

$$\begin{aligned} 3. \quad x + 4z &= -13 \\ 4x + z &= -22 \end{aligned}$$

$$\begin{aligned} 7. \quad 4b + 5v &= 6 \\ 6b + 3v &= 9 \end{aligned}$$

$$\begin{aligned} 4. \quad 5u + 5x &= 10 \\ u + 4x &= 5 \end{aligned}$$

$$\begin{aligned} 8. \quad 5b + 6u &= -5 \\ 4b + 6u &= -4 \end{aligned}$$

## Sistemas Lineales (I) Respuestas

Resuelva cada sistema de ecuaciones.

$$\begin{aligned} 1. \quad & c + 4z = 5 \\ & 2c + 4z = 10 \\ & c = 5, z = 0 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3b + 5y = -20 \\ & 6b + 4y = -16 \\ & b = 0, y = -4 \end{aligned}$$

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

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

$$\begin{aligned} 3. \quad & x + 4z = -13 \\ & 4x + z = -22 \\ & x = -5, z = -2 \end{aligned}$$

$$\begin{aligned} 7. \quad & 4b + 5v = 6 \\ & 6b + 3v = 9 \\ & b = \frac{3}{2}, v = 0 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5u + 5x = 10 \\ & u + 4x = 5 \\ & u = 1, x = 1 \end{aligned}$$

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

## Sistemas Lineales (J)

Resuelva cada sistema de ecuaciones.

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

$$\begin{aligned} 5. \quad & 5b + 6c = -19 \\ & 6b + 3c = -6 \end{aligned}$$

$$\begin{aligned} 2. \quad & 6u + 5z = 23 \\ & 2u + z = 7 \end{aligned}$$

$$\begin{aligned} 6. \quad & 5c + 6z = -12 \\ & 3c + 6z = -12 \end{aligned}$$

$$\begin{aligned} 3. \quad & 6c + 2u = 2 \\ & 6c + 3u = 7 \end{aligned}$$

$$\begin{aligned} 7. \quad & x + 3z = -3 \\ & 5x + 6z = -15 \end{aligned}$$

$$\begin{aligned} 4. \quad & 6u + 2x = 7 \\ & 2u + 2x = 9 \end{aligned}$$

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

## Sistemas Lineales (J) Respuestas

Resuelva cada sistema de ecuaciones.

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

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

$$\begin{aligned} 2. \quad & 6u + 5z = 23 \\ & 2u + z = 7 \\ & u = 3, z = 1 \end{aligned}$$

$$\begin{aligned} 6. \quad & 5c + 6z = -12 \\ & 3c + 6z = -12 \\ & c = 0, z = -2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 6c + 2u = 2 \\ & 6c + 3u = 7 \\ & c = -\frac{4}{3}, u = 5 \end{aligned}$$

$$\begin{aligned} 7. \quad & x + 3z = -3 \\ & 5x + 6z = -15 \\ & x = -3, z = 0 \end{aligned}$$

$$\begin{aligned} 4. \quad & 6u + 2x = 7 \\ & 2u + 2x = 9 \\ & u = -\frac{1}{2}, x = 5 \end{aligned}$$

$$\begin{aligned} 8. \quad & 3x + 4y = 4 \\ & 4x + 3y = 3 \\ & x = 0, y = 1 \end{aligned}$$