

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

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

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

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