



**MATEMATICAS
APLICADAS A LAS
CIENCIAS SOCIALES**

Mi Universidad

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Enero, 2021

SISTEMA DE ECUACIONES LINEALES

“Metodo de Igualcion”

$$1- 3x - 2y = 4$$

$$2- 5x + 3y = 13$$

1-Despejo X en 1.

$$3x - 2y = 4$$

$$3x = 4 + 2y$$

$$X = \frac{4 + 2y}{3}$$

3

Despejo X en 2.

$$5x + 3y = 13$$

$$5x = 13 - 3y$$

$$X = \frac{13 - 3y}{5}$$

5

2-Igualar.

$$\frac{4 + 2y}{3} = \frac{13 - 3y}{5}$$

3

5

3-Resolver.

$$5(4 + 2y) = 3(13 - 3y)$$

$$20 + 10y = 39 - 9y$$

$$10y + 9y = 39 - 20$$

$$19y = -19$$

$$\frac{-19}{19}$$

$$19$$

$$Y = -1$$

1-Despejar 1 variable en las 2 ecuaciones.

2-Igualar

3-Resolver

4-Reemplazar

4-Reemplazo “2” y= -1

$$5x + 3y = 13$$

$$5x + 3 \cdot (-1) = 13$$

$$5x - 3 = 13$$

$$5x = 13 + 3$$

$$5x = 16$$

$$\frac{16}{5}$$

$$5$$

$$X = \underline{3.2}$$

$$1- 4x + 3y = -1$$

$$2- 3x -5y = -9$$

1-Despejo X en 1.

$$4x + 3y = -1$$

$$4x = -1 -3y$$

$$X = \frac{-1 -3y}{4}$$

4

Despejo X en 2.

$$3x -5y = -9$$

$$3x = -9 + 5y$$

$$X = \frac{-9 + 5y}{3}$$

3

2-Igualar.

$$\frac{-1 -3y}{4} = \frac{-9 + 5y}{3}$$

4

3

3-Resolver.

$$3 (-1 -3y) = 4 (-9 +5y)$$

$$-3 -9y = -36 + 20y$$

$$-9y -20y = -36 + 3$$

$$29y = -33$$

$$\underline{\underline{33}}$$

$$-29$$

$$Y = -1.13$$

1-Despejar 1 variable en las 2 ecuaciones.

2-Igualar

3-Resolver

4-Reemplazar

4-Reemplazo "2" y= -1

$$4x + 3y = -1$$

$$4x + 3 \cdot (-1.13) = -1$$

$$4x = -3 -3.39$$

$$4x = -6.39$$

$$\underline{\underline{-6.39}}$$

4

$$X = \underline{\underline{1.59}}$$