



Mi universidad

Nombre del alumno: Martín de Jesús Aguilar espinosa

Tema: Matrices

Unidad 3

Asignatura: Matemáticas Administrativas

Profesor: Mtro. Jorge Enrique Albores Aguilar

Licenciatura: Administración y Estrategia de Negocios

Actividad: ejercicios

Segundo cuatrimestre

13 de febrero de 2022

Marlin de Jesús Aguilar Espinosa

$$x - 1 = y + 1$$

$$x - 3 = 3y - 7$$

$$x - y = 2 \quad (-3)$$

$$x - 3y = -4 \quad (1)$$

$$-3x + 3y = -6$$

$$\underline{x - 3y = -4}$$

$$2x = -10$$

$$-2x = -10$$

$$x = \frac{-10}{2}$$

$$\underline{\underline{x = 5}}$$

$$(5) - y = 2$$

$$y = -2 + 5$$

$$\underline{\underline{y = 3}}$$

$$x - y = 2$$

$$x - 3y = -4$$

$$x = \frac{2 + 4}{1}$$

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

$$2 + y = -4 + 3y$$

$$-3y + y = -4 - 2$$

$$-2y = -6$$

$$y = \frac{-6}{2}$$

$$\underline{\underline{y = 3}}$$

$$x - 3(3) = -4$$

$$x - 9 = -4$$

$$x = -4 + 9$$

$$\underline{\underline{x = 5}}$$

Reducción

igualación

Martin de Jescos Aguila Espinosa.

$$8x - 5 = 7y - 9$$

$$6x = 3y + 6$$

$$8x - 7y = -9 + 5$$

$$6x - 3y = 6$$

$$8x - 7y = -4(-3)$$

$$6x - 3y = 6(7)$$

Reducción

$$-24x + 21y = 12$$

$$42x - 21y = 42$$

$$18x / = 54$$

$$18x = 54$$

$$x = \frac{54}{18}$$

$$\underline{\underline{x = 3}}$$

$$8(3) - 7y = -4$$

$$24 - 7y = -4$$

$$-7y = -11 - 24$$

$$-7y = \frac{-28}{7}$$

$$\underline{\underline{y = 4}}$$

$$8x - 7y = -4$$

$$6x - 3y = 6$$

$$8x - 7y = -4$$

$$x = \frac{-4 + 7y}{8}$$

$$6x - 3y = 6$$

$$x = \frac{6 + 3y}{6}$$

Iguación

$$6(-4 + 7y) = 8(6 + 3y)$$

$$-24 + 42y = 48 + 24y$$

$$-24y + 42y = 48 + 24$$

$$18y = 72$$

$$y = \frac{72}{18}$$

$$\underline{\underline{y = 4}}$$

$$8x - 7(4) = -4$$

$$8x - 28 = -4$$

$$8x = -4 + 28$$

$$x = \frac{24}{8}$$

$$\underline{\underline{x = 3}}$$

Martin de Jesus Aguilar Espinosa.

$$\begin{aligned}x + y + z &= 2 \\ 2x + 3y + 5z &= 11 \\ x - 5y + 6z &= 29\end{aligned}$$

$$\begin{aligned}x + y + z &= 2 \\ 2x + 3y + 5z &= 11\end{aligned}$$

$$\begin{aligned}x + y + z &= 2 \quad (3) \\ 2x + 3y + 5z &= 11 \quad (1)\end{aligned}$$

$$-3x - 3y - 3z = -6$$

$$\underline{2x + 3y + 5z = 11}$$

$$-1x \quad + 2z = 5 \quad (ec4)$$

$$2x + 3y + 5z = 11 \quad (5)$$

$$\underline{x - 5y + 6z = 29 \quad (3)}$$

$$10x + 15y + 25z = 55$$

$$\underline{3x - 15y + 18z = 87}$$

$$13x \quad + 43z = 142 \quad (ec5)$$

$$-1x + 2z = 5 \quad (13)$$

$$\underline{13x + 43z = 142 \quad (1)}$$

$$= 13x + 26z = 65$$

$$\underline{13x + 43z = 142}$$

$$69z = 207$$

$$-1x + 2(3) = 5$$

$$-1x + 6 = 5$$

$$-1x = 5 - 6$$

$$x = \frac{-1}{-1} =$$

$$\underline{\underline{x = 1}}$$

$$1 + y + 3 = 2$$

$$y = 2 - 4$$

$$\underline{\underline{y = -2}}$$

$$z = \frac{207}{69} =$$

$$\underline{\underline{z = 3}}$$

Martin de Jesús Aguilar Espinosa.

$$x - 4 = 2$$

$$x - 3y = -4$$

$$\frac{x(2+4)}{x} - 3y = -4$$

$$\frac{2+4}{1} - 3y = -4$$

$$\frac{2}{1} + \frac{4}{1} - 3y = -4$$

$$\frac{1}{1} - 3y = -4 - \frac{2}{1}$$

$$-2y = -6$$

$$y = \frac{-6}{-2}$$

$$\underline{\underline{y = 3}}$$

$$x - (3) = 2$$

$$x = 2 + 3$$

$$\underline{\underline{x = 5}}$$

Substitución

Martín de Jesús Aguilar Espinosa.

$$8x - 7y = -4$$

$$6x - 3y = 6$$

$$8x = -4 + 7y$$

$$x = \frac{-4 + 7y}{8}$$

$$6 \left(\frac{-4 + 7y}{8} \right) - 3y = 6$$

$$\frac{-24 + 42y}{8} - 3y = 6$$

$$\frac{-24}{8} + \frac{42y}{8} - 3y = 6$$

$$\frac{42y}{8} - 3y = 6 + \frac{24}{8}$$

$$\frac{9}{4}y = 9$$

$$y = \frac{9}{\frac{9}{4}} = \underline{\underline{4}}$$

substitución

$$8x - 7y = -4$$

$$8x - 7(4) = -4$$

$$8x - 28 = -4$$

$$8x = -4 + 28$$

$$x = 24/8$$

$$\underline{\underline{x = 3}}$$