Ejercicio 1

Matematica Administrativas

Jueves

D 18 M 01 A 24

- Se compra una maquina por $ 12,000 K
- 6 años despues $ 9 K

Años — Precio

x → Constante y → Variable

(Año 0 , $ 12 K)

(Año 12 , $ 9 K)

$$m = \frac{\Delta y}{\Delta x}$$

$$m = \frac{-3}{6}$$

$$m = -1/2$$

$$y - y_1 = m(x - x_1)$$

$$y - 12 = m = -\frac{1}{2}(x - 0)$$

$$y - 12 = \frac{-x}{2}$$

$$y = \frac{-x}{2} + 12$$

$$f(10) = \frac{-10}{2} + 12$$

$$f(10) = -5 + 12$$

$$\boxed{f(10) = 7}$$

Ejercicio 2

Matematicas Administrativas

Jueves 18 01 24

- 1 Juego , $25
- 5 Juegos , $150

$m = \frac{\Delta y}{\Delta x}$

$m = \frac{125}{4}$

$y - y_1 = m(x - x_1)$

$y - 25 = 125 = \frac{125}{4}(x - 1)$

$4(y - 25) = \left(\frac{125}{4}x - \frac{125}{4}\right)4$

$y = \frac{125x - 25}{5}$

$y = \frac{125x}{4} - \frac{25}{4}$

$4y = -100 = 125x - 125$

$4y = 125x - 125 + 100$

$4y = 125x - 25$

$$y = 31.25x - 6.25$$

Ejercicio 3

Matematicas Administrativas

Jueves

D 18 M 01 A 24

- 20 platillos , $ 1,600
- 100 platillos, $ 7,000

Platillos = x

Cantidad = y

$$m = \frac{\$5,400}{80}$$

$$m = \frac{540}{8}$$

$$m = 67.5$$

$$y - y_1 = m(x - x_1)$$

$$y = 1,600 = 67.5(x - 20)$$

$$y = -1600 = 67.5x - 1350$$

$$y = 67.5x - 1350 + 1600$$

$$y = 67.5x + 250$$

$$f(150) = 67.5(150) + 250$$

$$f(150) = \$10375$$