



**Nombre del alumno: Cynthia
Mariana Jimenez Ramirez.**

**Nombre del profesor: Jorge
Sebastián Domínguez Torres.**

Nombre del trabajo: Problemario

Materia: Matemáticas Aplicada

Grado: Sexto Semestre.

Grupo: A.

PASIÓN POR EDUCAR

Comitán de Domínguez Chiapas 17 de marzo del 2024

PROBLEMAS:

① LLAMADA - \$15

CADA - km - \$9

RECORRE

$$10 \text{ km} = \$90 + \$15 = \$105$$

$$F(x) = 9x + 15$$

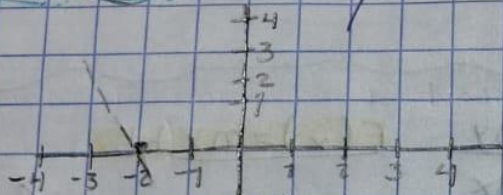
RAZÓN CAMBIO = PENDIENTE

② PRIMER DIA 650 = INICIO

CADA DIA 15 = m

$$F(x) = 15x + 650$$

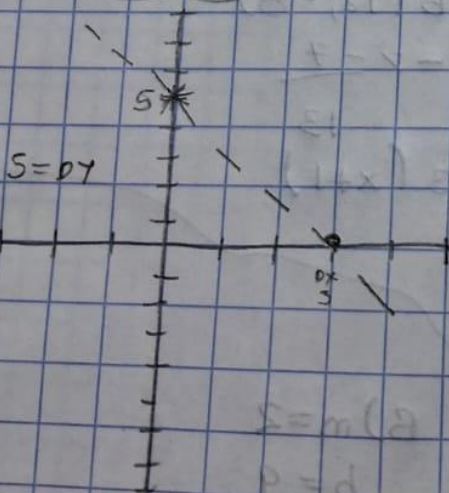
③



PENDIENTE / RAZÓN DE CAMBIO
PROGRESIVO $m = \frac{\Delta y}{\Delta x}$

$$F(x) = \frac{-3}{2}x - 3$$

④



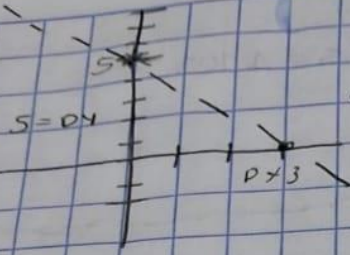
$$m = \frac{\Delta y}{\Delta x}$$

$$m = \frac{5}{3}$$

$$F(x) = mx + b$$

$$F(x) = 5x + 5$$

3



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

$$a) m = \frac{5}{3} \quad F(x) = mx + b$$

$$F(x) = \frac{5}{3}x + 5$$

$$y = 12x - 15$$

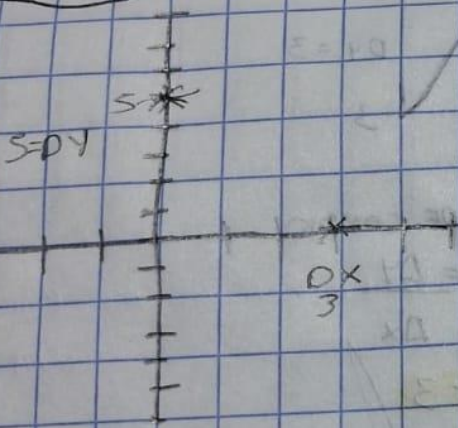
$$m = 12$$

$$b = -15$$

$$b) y = -2x + 5$$

$$m = -2$$

$$b = 5$$



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

$$m = \frac{5}{3} \quad F(x) = mx + b$$

$$F(x) = \frac{5}{3}x + 5$$

$$a) A(2, 10) \quad B(13, 20)$$

$$m = \frac{20 - 10}{13 - 2}$$

$$2 \rightarrow 13$$

$$m = 10/11$$

$$y - 10 = 10/11(x - 2)$$

$$y = 10x - 20 + 20/11$$

$$|| \quad || \quad ||$$

$$y = 10x + 90$$

$$|| \quad ||$$

$$b) A(-1, -1) \quad B(12, -8)$$

$$m = \frac{-8 - (-1)}{12 - (-1)}$$

$$-1 - 12 \quad 13$$

$$y + 1 = -7/13(x + 1)$$

$$y = -7x - 1$$

$$13$$

$$II a) m = -13$$

$$b = -7$$

$$F(x) = -13x - 7$$

$$B) m = 2$$

$$b = 9$$

$$F(x) = 2x + 9$$