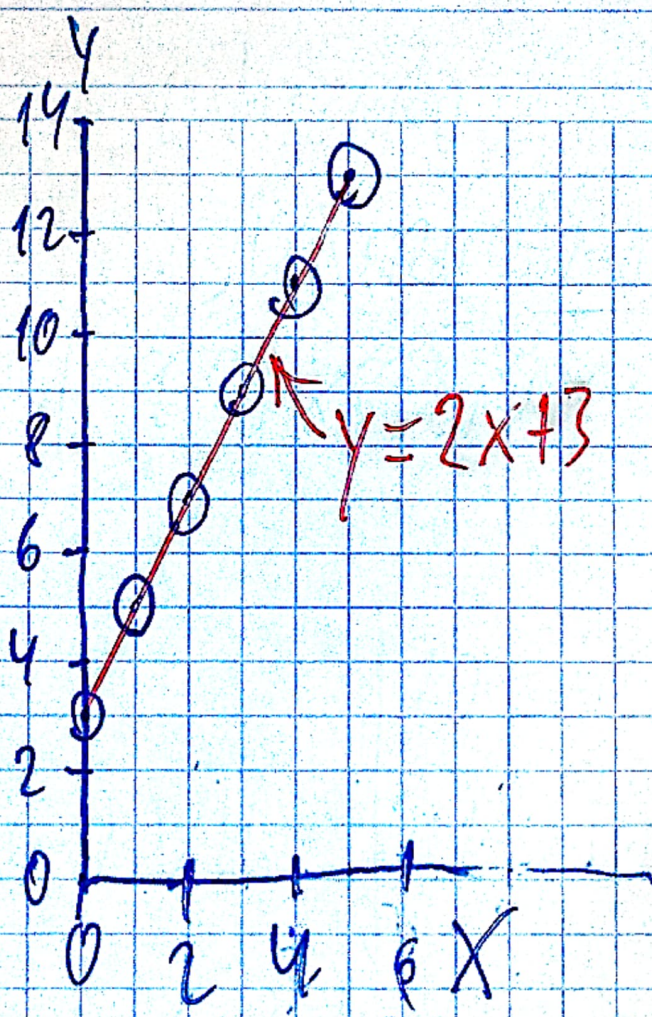


$$y = 2x + 3$$

X	Y
0	3
1	5
2	7
3	9
4	11
5	13



2022) r: $2x + 3y - 12 = 0$

a) ¿PENDIENTE Y ORDENADA EN EL ORIGEN?

$$3y = 2x + 12$$

$$y = \frac{2x + 12}{3} = -\frac{2}{3}x + \frac{12}{3}$$

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

PENDIENTE $= -\frac{2}{3}$

ORDENADA EN EL ORIGEN $= 4$

b) CALCULAR PUNTOS DE CORTE CON LOS Ejes

$$\begin{array}{l} 2x + 3y - 12 = 0 \\ x = 0 \end{array} \left\{ \begin{array}{l} 2 \cdot 0 + 3y - 12 = 0 \\ 3y - 12 = 0 \Rightarrow y = \frac{12}{3} = 4 \end{array} \right. (0, 4)$$

$$\begin{array}{l} 2x + 3y - 12 = 0 \\ y = 0 \end{array} \left\{ \begin{array}{l} 2x + 3 \cdot 0 - 12 = 0 \\ 2x - 12 = 0 \Rightarrow 2x = 12 \Rightarrow x = \frac{12}{2} = 6 \end{array} \right. (6, 0)$$

$$y = -\frac{2}{3}x + 4 \quad \left| \quad \boxed{y = -\frac{2}{3} \cdot 0 + 4 = 4} \quad (0, 4) \right.$$

$$x = 0$$

$$y = -\frac{2}{3}x + 4 \quad \left| \quad 0 = -\frac{2}{3}x + 4 \Rightarrow \frac{2}{3}x = 4 \right.$$

$$y = 0$$

$$\boxed{x = \frac{4 \cdot 3}{2} = 6} \quad (6, 0)$$

d) RECTA PARALELA A r Y QUE PASA POR
A (2,3)

$$s: y = ax + b$$

PEND

$$y = -\frac{2}{3}x + b$$

$$3 = -\frac{2}{3} \cdot 2 + b$$

$$3 = -\frac{4}{3} + b \Rightarrow 3 + \frac{4}{3} = b$$

$$b = 3 + \frac{4}{3} = \frac{9+4}{3} = \frac{13}{3}$$

$$\frac{9}{3} + \frac{4}{3} = \frac{13}{3}$$

$$s: y = -\frac{2}{3}x + \frac{13}{3}$$

2021) $8x + 4y - 12 = 0$ ¿PENDIENTE?

$$4y = -8x + 12$$

$$y = -\frac{8}{4}x + \frac{12}{4}$$

$$y = -2x + 3$$

PENDIENTE = -2

2019) RECTA PARALELA A $2x+3y+6=0$ QUE

PASA POR $P(2, -3)$

$$2x+3y+6=0 \Rightarrow 3y = -2x-6 \Rightarrow y = -\frac{2}{3}x - \frac{6}{3} \Rightarrow \boxed{y = -\frac{2}{3}x - 2}$$

$$\text{PENDIENTE} = -\frac{2}{3}$$

$$y = -\frac{2}{3}x + b$$

$$-3 = -\frac{2}{3} \cdot 2 + b$$

$$\begin{matrix} (2, -3) \\ \uparrow \quad \uparrow \\ x \quad y \end{matrix}$$

$$-3 = -\frac{4}{3} + b \Rightarrow -3 + \frac{4}{3} = b$$

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

$$y = -\frac{2}{3}x - \frac{5}{3}$$