# ACTIVIDAD 1

# Act 1. "Graficación de funciones"

## "Función lineal"

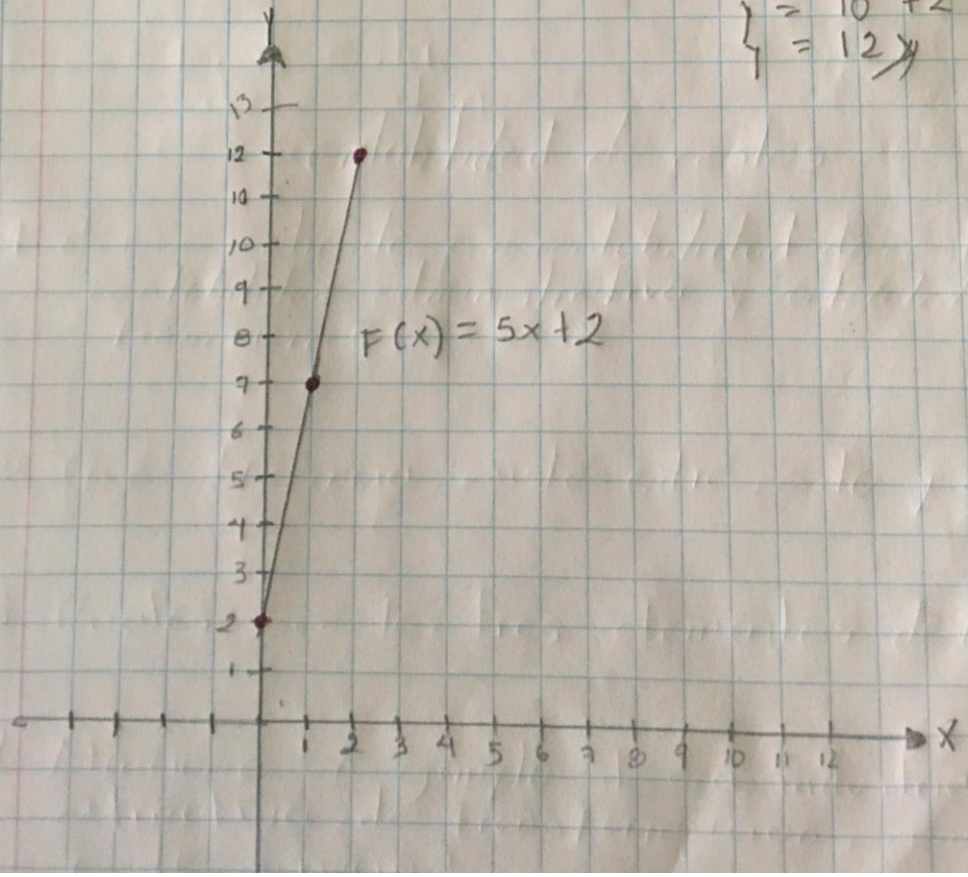
$F(x) = 5x + 2$

| X | 0 | 1 | 2 |
|---|---|---|---|
| Y | 2 | 7 | 12 |

$y = 5 \cdot 0 + 2$
$y = 0 + 2$
$y = 2$

$y = 5 \cdot 1 + 2$
$y = 5 + 2$
$y = 7$

$y = 5 \cdot 2 + 2$
$y = 10 + 2$
$y = 12$



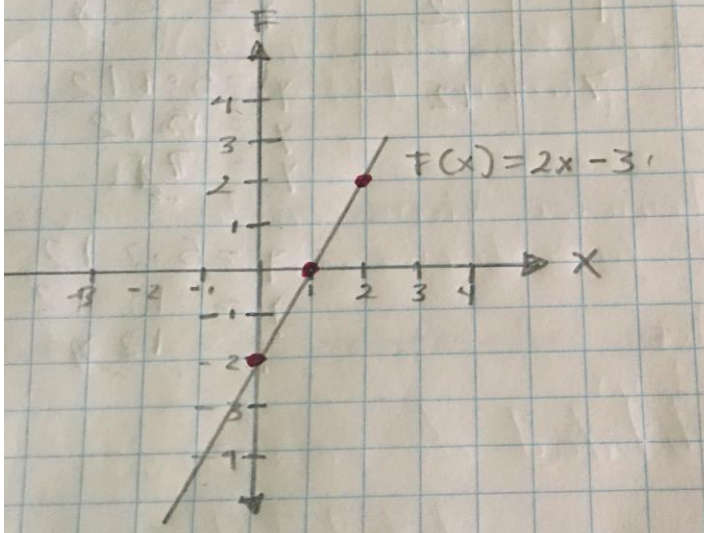
$F(x) = 2x - 3$

| x | 0 | 1 | 2 |
|---|---|---|---|
| F | -2 | 0 | 2 |

$F(x) = 2 \cdot 0 - 2$
$F(x) = 0 - 2$
$F(x) = -2$

$F(x) = 2 \cdot 1 - 2$
$F(x) = 2 - 2$
$F(x) = 0$

$F(x) = 2 \cdot 2 - 2$
$F(x) = 4 - 2$
$F(x) = 2$



# Función cubica

$F(x) = x^3 + 3$

| x | f(x) |
|---|---|
| 0 | 3 |
| 1 | 4 |
| 2 | 11 |
| -1 | 2 |
| -2 | -5 |

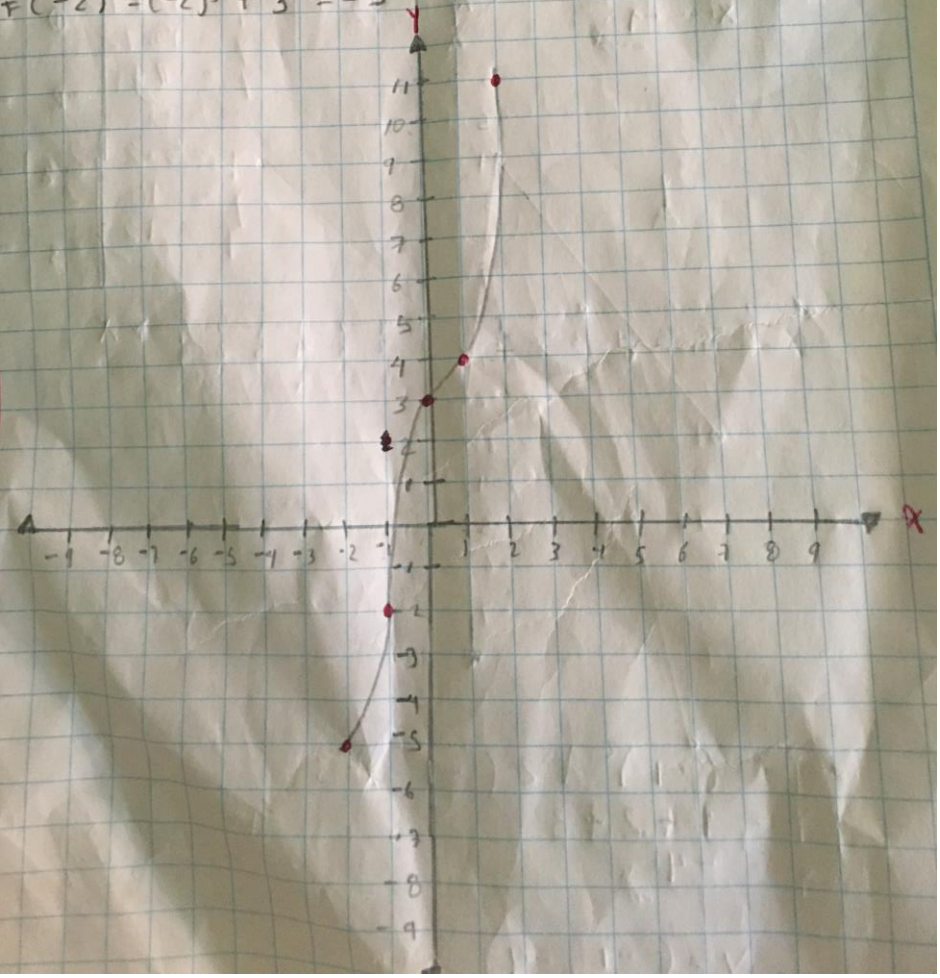
$F(0) = (0)^3 + 3 = 3$

$F(1) = (1)^3 + 3 = 4$

$F(2) = (2)^3 + 3 = 11$

$F(-1) = (-1)^3 + 3 = 2$

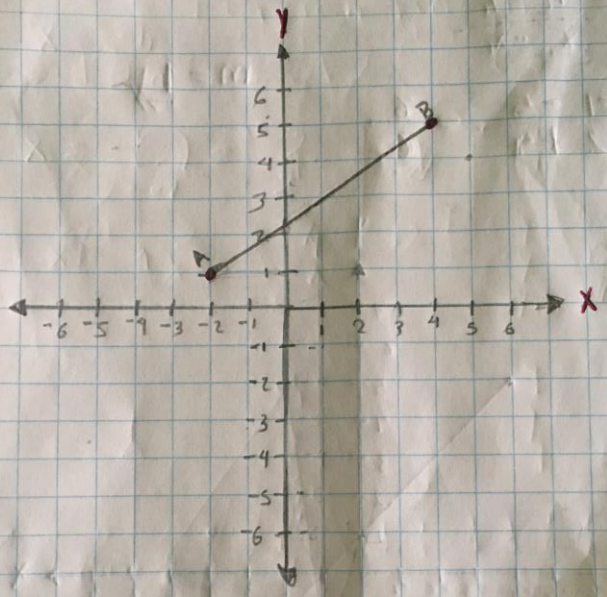
$F(-2) = (-2)^3 + 3 = -5$



# ACTIVIDAD 2

Pendiente de la recta

A $(\overset{x_1}{-2}, \overset{y_1}{1})$ y B $(\overset{x_2}{4}, \overset{y_2}{5})$




$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{5 - 1}{4 - (-2)} = \frac{4}{6}$$

$$m = \frac{4}{6}$$

$A(\overset{x_1}{-4}, \overset{y_1}{5})$ y $B(\overset{x_2}{2}, \overset{y_2}{-1})$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-1 - 5}{2 + 4} \Rightarrow \frac{6}{6}$$

$m = 1$