



Mi Universidad

Actividad I

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Parcial: **1**

Materia: **Matemáticas Administrativas**

Nombre del Profesor: **Ing. Joel Herrera Ordoñez**

Licenciatura: **LAE**

Cuatrimestre: **2do Cuatrimestre**

Determina la gráfica de la función
 $f(x) = 2x - 1$

$$f(x) = 2(5) - 1 = 9$$

$$f(x) = 2(4) - 1 = 7$$

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

$$f(x) = 2(2) - 1 = 3$$

$$f(x) = 2(1) - 1 = 1$$

$$f(x) = 2(0) - 1 = -1$$

$$f(x) = 2(-1) - 1 = -3$$

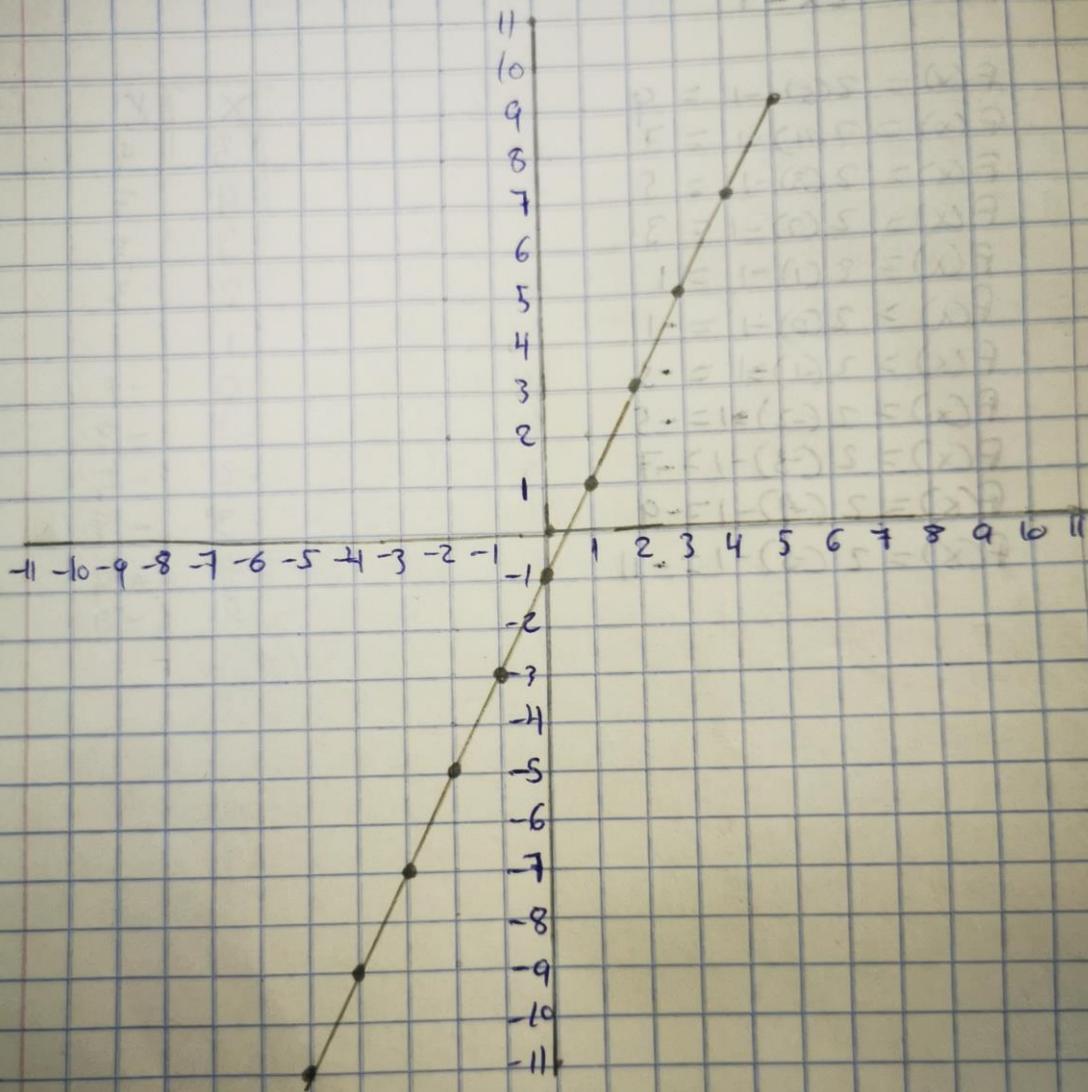
$$f(x) = 2(-2) - 1 = -5$$

$$f(x) = 2(-3) - 1 = -7$$

$$f(x) = 2(-4) - 1 = -9$$

$$f(x) = 2(-5) - 1 = -11$$

x	y
5	9
4	7
3	5
2	3
1	1
0	-1
-1	-3
-2	-5
-3	-7
-4	-9
-5	-11



Determina la gráfica de la función
 $F(x) = x^2 - 6x + 9$

$$F(x) = 5^2 - 6(5) + 9 = 4$$

$$F(x) = 4^2 - 6(4) + 9 = 1$$

$$F(x) = 3^2 - 6(3) + 9 = 0$$

$$F(x) = 2^2 - 6(2) + 9 = 1$$

$$F(x) = 1^2 - 6(1) + 9 = 4$$

$$F(x) = 0^2 - 6(0) + 9 = 9$$

$$F(x) = (-1)^2 - 6(-1) + 9 = 16$$

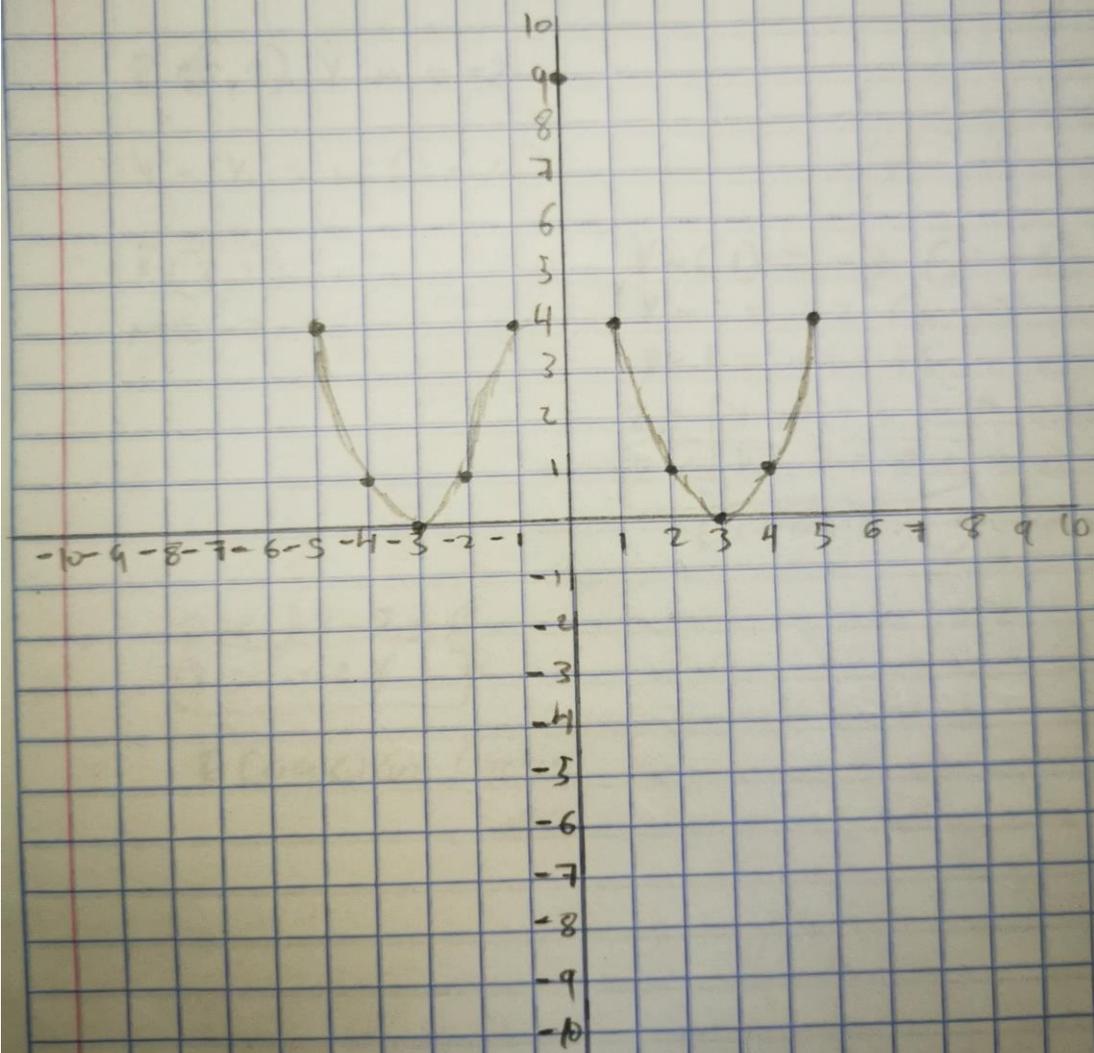
$$F(x) = (-2)^2 - 6(-2) + 9 = 25$$

$$F(x) = (-3)^2 - 6(-3) + 9 = 36$$

$$F(x) = (-4)^2 - 6(-4) + 9 = 49$$

$$F(x) = (-5)^2 - 6(-5) + 9 = 64$$

X	Y
5	4
4	1
3	0
2	1
1	4
0	9
-1	16
-2	25
-3	36
-4	49
-5	64



Ecuación punto - Pendiente

$$P(3,1) \text{ y } m = -2$$

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

$$P(x_1, y_1)$$

$$P(3,1)$$

$$m = -2$$

$$y - (1) = -2(x - 3)$$

$$y - 1 = -2(x - 3)$$

$$y - 1 = -2x + 6$$

$$2x + y - 1 - 6 = 0$$

$$2x + y - 7 = 0$$

Ecuación general

$$2x + y - 7 = 0$$

$$y = -2x + 7$$

Ecuación Común

Ecuación de la recta que pasa por dos puntos dados

Punto A (x_1, y_1)
 $(-1, 3)$

Punto B (x_2, y_2)
 $(2, 6)$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{6 - 3}{2 - (-1)} = \frac{3}{3}$$

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

$$y - (-3) = \frac{3}{3}(x - (-1))$$

$$y + 3 = \frac{3}{3}(x + 1)$$

$$3(y + 3) = 3(x + 1)$$

$$3y + 9 = 3x + 3$$

$$-3x + 3y + 9 - 3 = 0$$

$$e) -3x + 3y + 6 = 0$$

$$3x - 3y - 6 = 0$$