

$$f(x) = \begin{cases} 2^x & \text{si } x < 0 & T1 \\ -x+1 & \text{si } 0 < x \leq 2 & T2 \\ -x^2+6x-8 & \text{si } x > 2 & T3 \end{cases}$$

T1: FUNCIÓN EXPONENCIAL

x	f(x)
0	1
-1	0.5
-2	0.25

T2: F. AFÍN

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

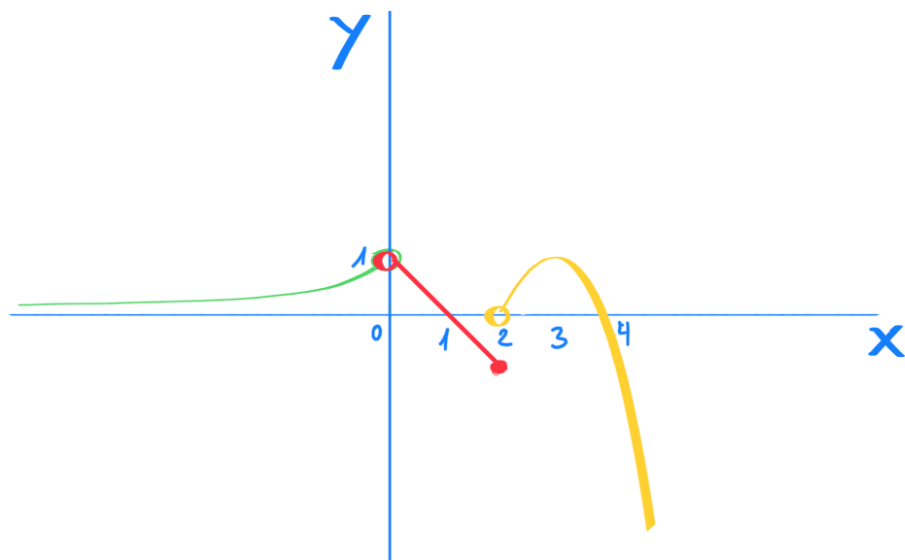
T3: FUNCIÓN CUADRÁTICA

VÉRTICE: $(V_x, V_y) = (3, 1)$

x	f(x)
2	0
4	0

$$V_x = \frac{-b}{2a} = \frac{-6}{2 \cdot (-1)} = 3$$

$$V_y = -(3)^2 + 6 \cdot (3) - 8 = -9 + 18 - 8 = 1$$



$$D(f) = (-\infty, 0) \cup (0, +\infty)$$

$$\text{Im}(f) = (-\infty, 1]$$

ΜΟΝΟΤΟΝΙΑ:

$$\text{CRESCIENTE: } (-\infty, 0) \cup (2, 3)$$

$$\text{DECRECIENTE: } (0, 2) \cup (3, +\infty)$$

$$\text{ΜΆΧΙΜΟ ABSOLUTO: } \mathcal{M}(3, 1)$$