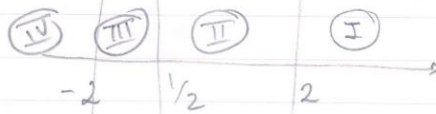
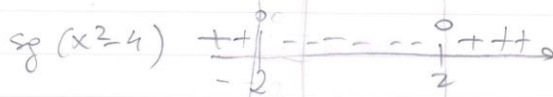


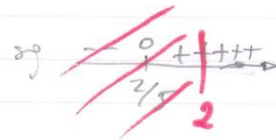
Ejercicio: i(x)

$$i(x) = |2x-1| - \operatorname{sg}(x^2-4) + 3x$$



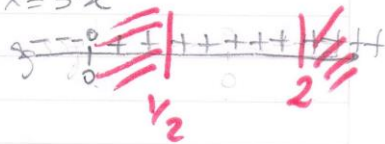
Ⓘ $i(x) = 2x-1 - 1 + 3x = 5x-2$

x	y
2	8
3	13



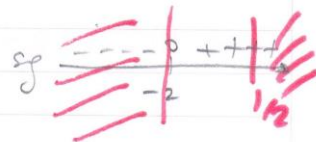
Ⓜ $i(x) = 2x-1 - (-1) + 3x = 2x+3x = 5x$

x	y
1/2	5/2
2	10



Ⓝ $i(x) = -2x+1 - (-1) + 3x = x+2$

x	y
-2	0
1/2	5/2



Ⓙ $i(x) = -2x+1 - 1 + 3x = x$

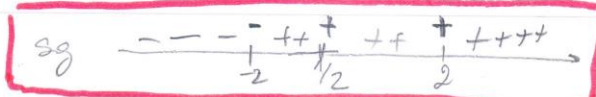
x	y
-2	-2
-3	-3



$$i(2) = 3 - 0 + 6 = 9$$

$$i(1/2) = 0 - (-1) + 3/2 = 5/2$$

$$i(-2) = 5 - 0 - 6 = -1$$



$$i(x) = \begin{cases} 5x-2, & x > 2 \\ 9, & x = 2 \\ 5x, & \frac{1}{2} < x < 2 \\ 5/2, & x = \frac{1}{2} \\ x+2, & -2 < x < \frac{1}{2} \\ -1, & x = -2 \\ x, & x < -2 \end{cases}$$

