① $f(x) = -|x+1|+3$ — abajo, 1 izq, 3 arriba

a) • Intersección eje x = • (2,0) • (-4,0)

$-|x+1|+3=0$

$-|x+1| = -3$

$|x+1| = 3$

$x+1=3$ | $x+1=-3$

$x=3-1$ | $x=-3-1$

$\boxed{x=2}$ | $\boxed{x=-4}$

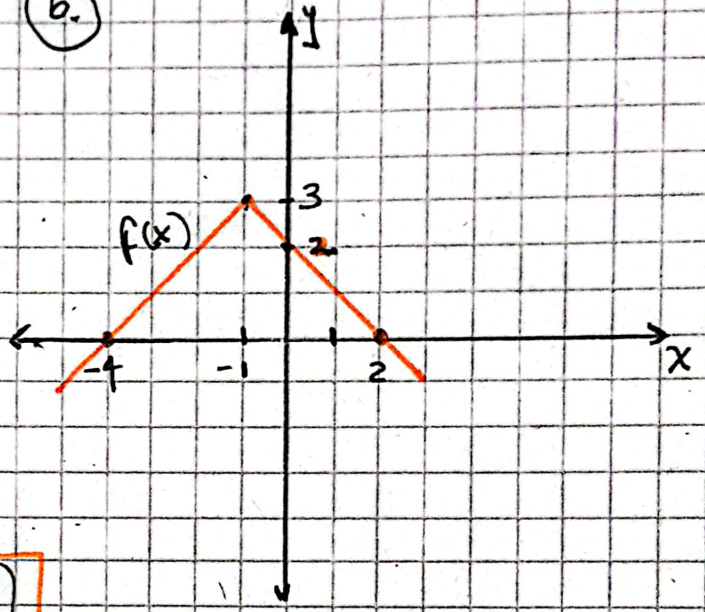
• Intersección eje y = • (0,2)

$y = -|0+1|+3$

$y = -|1|+3$

$y = -1+3 = \boxed{2=y}$

b.



c)

Imagen = $(3, -\infty)$

Dom $f = \mathbb{R}$

$C_0 = \{-4, 2\}$

$C^+ = (-4, 2)$

$C^- = (-\infty, -4) \cup (2, +\infty)$

$I_c = (-\infty, -1)$ | $I_d = (-1, +\infty)$