

① $f(x) = -|x+1| + 3$

abajo (under the absolute value)
129 (the number 129)
3 arriba (3 above the absolute value)

② Intersección eje $x = \bullet (2, 0)$
 $\bullet (-4, 0)$

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

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

$$|x+1| = 3$$

$$x+1 = 3$$

$$x = 3-1$$

$$\boxed{x = 2}$$

$$x+1 = -3$$

$$x = -3-1$$

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

• Intersección eje $y = \bullet (0, 2)$

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

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

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

③

④

Imagen: $(3, -\infty)$

Dom $= \mathbb{R}$

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

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

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

$I_c = (-\infty, -1)$

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

