

2º Para  $x \in (-\sqrt{3}, -1] \Rightarrow -(x^2 - 3) + 2 \leq (x^2 - 1)$

$$\Leftrightarrow -x^2 + 3 + 2 \leq x^2 - 1$$

$$\Leftrightarrow 5 - 1 \leq x^2 + x^2$$

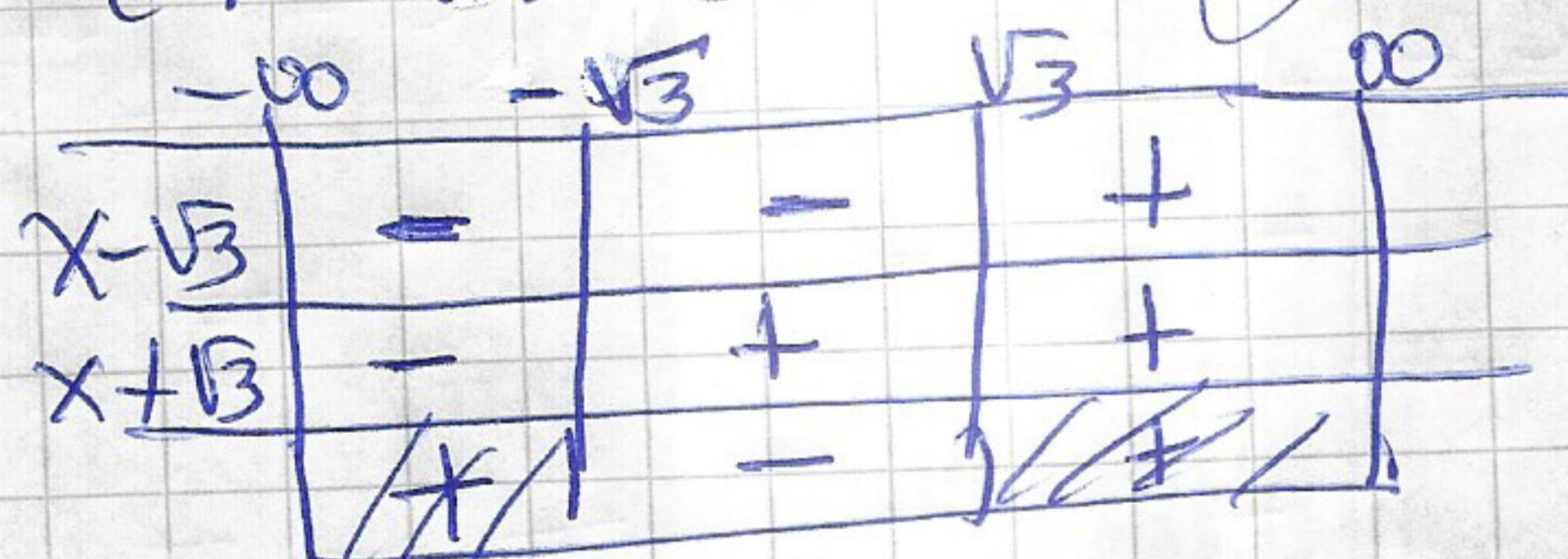
$$\Leftrightarrow 6 \leq 2x^2$$

$$\Leftrightarrow 2x^2 \geq 6$$

$$\Leftrightarrow x^2 \geq 3$$

$$\Leftrightarrow (x^2 - 3) \geq 0$$

$$\Leftrightarrow (x - \sqrt{3})(x + \sqrt{3}) \geq 0$$

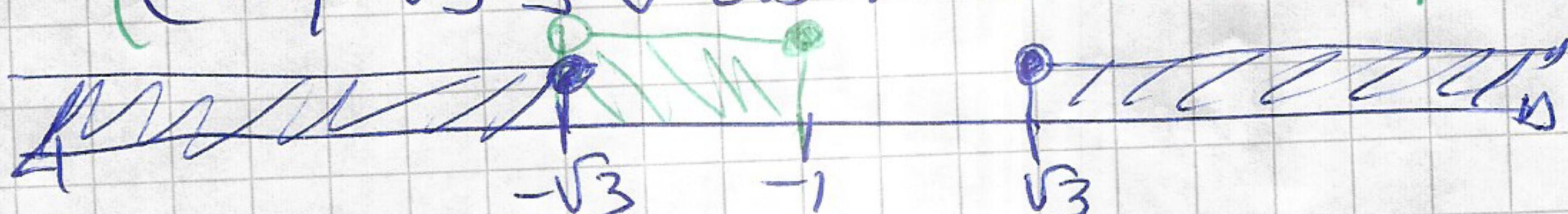


$$\begin{aligned} x^2 - 3 &= x^2 - \sqrt{3}^2 \\ x^2 - 3 &= x^2 - (\sqrt{3})^2 \end{aligned}$$

luego:  $(-\infty, -\sqrt{3}] \cup [\sqrt{3}, +\infty)$

Ahora intersección:

$$(-\infty, -\sqrt{3}] \cup [\sqrt{3}, +\infty) \cap (-\sqrt{3}, -1]$$



o<sup>o</sup> C.S<sub>2</sub> es:  $\emptyset$ .