

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

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

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

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

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

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

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

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

	$-\infty$	$-\sqrt{3}$	$\sqrt{3}$	∞
$x-\sqrt{3}$	-	-	+	
$x+\sqrt{3}$	-	+	+	
	+	-	+	

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

Ahora intersecciones:

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



∴ $C.S_2$ es: \emptyset

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