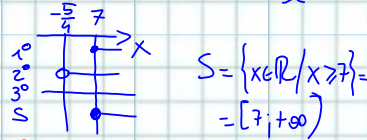


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$\sqrt{x-7} < 4x+5$

C.E. $\begin{cases} x-7 \geq 0 \\ 4x+5 > 0 \\ x-7 < (4x+5)^2 \end{cases} \begin{cases} x \geq 7 \\ x > -\frac{5}{4} \\ x-7 < 16x^2+25+40x \end{cases}$

$\begin{matrix} 1^\circ & x \geq 7 \\ 2^\circ & x > -\frac{5}{4} \\ 3^\circ & 16x^2+39x+32 > 0 \rightarrow x_{1,2} = \frac{-39 \pm \sqrt{1521-2048}}{32} \end{matrix}$



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$\left| \frac{x^2-2x}{x+1} \right| < 2$

$\begin{cases} \frac{x^2-2x}{x+1} < 2 \\ \frac{x^2-2x}{x+1} > -2 \end{cases} \begin{matrix} |A(x)| < K \\ \text{con } K > 0 \\ -K < A(x) < K \end{matrix}$

se $A(x) > 0$

$A(x) < K$

se $A(x) < 0$

$-A(x) < K$

$A(x) > -K$

$\left| \frac{x^2-2x}{x+1} \right| = \frac{|x^2-2x|}{|x+1|}$

N) $x(x-2) \geq 0$

+	+	-	+
---	---	---	---

D) $x+1 > 0$

-	+	+	+
---	---	---	---

$\frac{x^2-2x}{-x-1} < 2 \rightarrow \frac{-x^2+2x}{x+1} < 2$

$\frac{x^2-2x+2x+2}{-x-1} < 0 \rightarrow \frac{-x^2+2x+2}{-x-1} < 0$

N) $x^2+2 > 0$

-	-	-	-
---	---	---	---

D) $-x-1 > 0 \rightarrow x < -1$

-	-	+	+
---	---	---	---

N) $x^2-2 > 0$

-	-	-	-
---	---	---	---

D) $x+1 > 0 \rightarrow x > -1$

-	-	+	+
---	---	---	---

$\frac{A(x)}{B(x)} < K \rightarrow \frac{|A(x)|}{|B(x)|} < K \rightarrow \frac{|A(x)|}{|B(x)|} < \frac{|K|}{|B(x)|}$

$\frac{3}{4} - \frac{3}{4} = \frac{-3}{4} = \frac{3}{-4}$

$\left| \frac{x+1}{x-2} \right| > 0$

custode TOSA UN CAMPO in n min
giardiniere TOSA UN CAMPO in $\frac{n}{2}$ min

$$\frac{1 \text{ CAMPO}}{n \text{ min}} + \frac{1 \text{ CAMPO}}{\frac{n}{2} \text{ min}} > 1$$

