



$$\sqrt{-x^2 + 2x} < x$$

$$\begin{cases} y = \sqrt{-x^2 + 2x} \\ y = x \end{cases} \rightarrow y = \sqrt{-x^2 + 2x}$$

$$y \geq 0$$

$$y^2 = -x^2 + 2x \rightarrow x^2 + y^2 - 2x = 0$$

$$C\left(-\frac{a}{2}; -\frac{b}{2}\right) = (1; 0)$$

RIS. ALG.

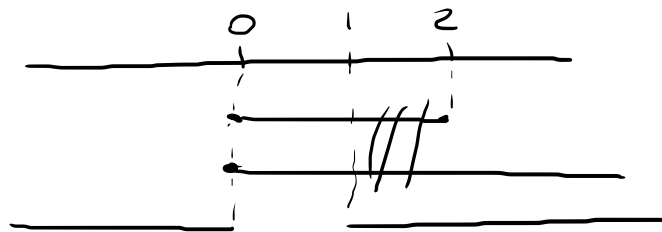
$$\begin{cases} -x^2 + 2x \geq 0 \\ x \geq 0 \\ -x^2 + 2x < x^2 \end{cases}$$

$$\begin{cases} x^2 - 2x \leq 0 \\ x \geq 0 \\ -2x^2 + 2x < 0 \end{cases}$$

$$\begin{cases} x(x-2) \leq 0 - \begin{matrix} x_1 = 0 \\ x_2 = 2 \end{matrix} \end{cases}$$

$$\begin{cases} 0 \leq x \leq 2 \\ x \geq 0 \\ 2x^2 - 2x > 0 \end{cases}$$

$$\begin{cases} 2x(x-1) > 0 \rightarrow \begin{matrix} x_1 = 0 \\ x_2 = 1 \end{matrix} \end{cases} \quad x < 0 \vee x > 1$$



$$1 < x \leq 2$$

