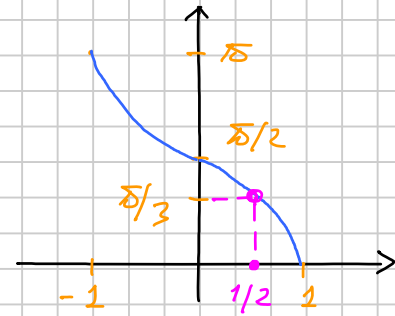


$$\text{ARCCOS}\left(\frac{x}{x^2-2}\right) = \frac{\pi}{3}$$

$$\text{ARCCOS}(x) \quad [-1, 1] \rightarrow [0, \pi]$$



$$\text{ARCCOS}\left(\frac{x}{x^2-2}\right) = \frac{\pi}{3} \Rightarrow \frac{x}{x^2-2} = \cos \frac{\pi}{3} = \frac{1}{2}$$

$$x^2-2 \neq 0 \quad x^2-2=2x \quad x^2-2x-2=0$$

$$x = \frac{2 \pm \sqrt{5+52}}{2} \quad x = 1 \pm \sqrt{1+2} \quad x \in \mathbb{R}$$

$$1+2 \geq 0 \leadsto 2 \geq -1 \quad \text{con } x^2 \neq 2$$