

$$\begin{cases} x > 0 \\ x < 0 \end{cases} \rightarrow \sqrt{\frac{x-x^2}{x(1-x)}} \xrightarrow{\text{Quadrat}} \frac{1-x}{\sqrt{x-x^2}} = 0 \rightarrow x = 1/2 > 0, 1$$

$$\sqrt{\frac{x(1+x)}{x^2+2}} \xrightarrow{\text{Quadrat}} \frac{1+x}{\sqrt{x^2+2}} \rightarrow x = 0, -1, \sqrt{2}$$

$K+m+n=0$
 $K = \frac{1}{2}, m = 1/2, n = -1$
 $a^v = 1/y, a^v = y/f, a = \sqrt{y}, [a] = f$

$$y = \sqrt{x} + \sqrt{6-4x}$$

$$x=0 \rightarrow \sqrt{6}$$

$$x = \frac{9}{4} \rightarrow \sqrt{\frac{3}{2}}$$

$$f(x) = \frac{x^v}{x^v-1} \cdot \frac{x^v-1}{x^v-1} \Rightarrow \frac{x^v(x^v-1) - (x^v-1)x^v}{(x^v-1)^2}$$

$$f(x) = \frac{x^v(x^v-1) - (x^v-1)x^v}{(x^v-1)^2} = \frac{x^v(x^v-1) - x^v(x^v-1)}{(x^v-1)^2} = 0$$

$$ax^2 + bx + c = 0$$

$$a = 1, b = 1, c = 0$$

$$x(x^v-x^v) = vx - x^v \rightarrow vx - vx^v = 0$$

$$y = \frac{a}{a+1} \leftarrow \text{Ziel} \quad x = \frac{-a+1}{a+1}$$

$$\min_{a \in \mathbb{R}} \frac{-b}{va} = \frac{-1}{1} = -1$$

$$a = f$$

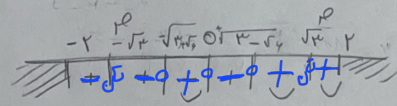
$$\frac{x^k}{x^k - 1} \rightarrow \frac{1x^k - 1x^k + 1x^k - 1x^k}{(x^k - 1)^2} < 0 \quad \boxed{9 \text{ } \sqrt{17} - 2 \text{ } \text{CIP}}$$

$$\frac{x^k (x^k - 1)^{-1}}{(x^k - 1)^2} < 0 \quad \frac{-1 + 1 \frac{\sqrt{17}}{1}}{-1 + 1 \frac{\sqrt{17}}{1}}$$

Condition $\rightarrow f'(x) < 0$ CIP $\rightarrow \boxed{0, 17} - 10$

$$\frac{(x^k)(x^k - 1) - (1x)(x^k - 1)}{(x^k - 1)^2} < 0 \quad \frac{1x^k - 1x^k - 1x^k + 1x^k}{(x^k - 1)^2}$$

! Wolras $= \sqrt{17} \sqrt{k}$ $\frac{1x^k - 1x^k + 1x^k - 1x^k}{(x^k - 1)^2} < 0$ $\boxed{1/100}$



$$\frac{1x(x^k - 1) - 1x^k + 1}{(x^k - 1)^2} < 0$$

$ax^y = t$

$$t^2 - 4t + 1 = 0$$

$$t^2 - 4t + 1 = 16$$

$$t^2 = \frac{7 \pm \sqrt{49 - 4}}{2} = \frac{7 \pm \sqrt{45}}{2} = \frac{7 \pm 3\sqrt{5}}{2}$$

$$t = \frac{7 \pm 3\sqrt{5}}{2} \rightarrow \frac{7 \pm 3\sqrt{5}}{2} \quad \alpha$$

$$7 - \sqrt{5}$$