

$$\lim_{x \rightarrow 1} f(x) = f(1) = 1 + f(1) \rightarrow f(1) = 1$$

10, 28

1, 06

$$\lim_{x \rightarrow 1} a(x+1) + b = a(1+1) + b = 2a + b = 3 \Rightarrow 2a + b = 3$$

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$$f(x) = x \rightarrow y = \sqrt{x - x^2}$$

$$y = \sqrt{x(1-x)} \rightarrow x = 0 \rightarrow y = \frac{1}{2} \rightarrow \text{Domain } [-\infty, \frac{1}{2}] = [0, \frac{1}{2}]$$

$$f(x) = \frac{x(x^2-1)}{x+1} \rightarrow x(x-1) \rightarrow x^2 - x \rightarrow \text{Domain } [-\frac{1}{2}, +\infty) \rightarrow (-1, +\infty)$$

$$\text{① } x^2 - 2x + 1 = 0 \rightarrow x^2 - 2x + 1 = 0 \rightarrow (x-1)(x+1)$$

$$f\left(\frac{x-1}{x+1}\right) \rightarrow (-1)^2 - 2(-1) = 3$$

③ حركت كنند تابع خطی پس داخل مخرج

$$\sqrt{x(x-1)} \rightarrow \sqrt{x^3 + 12x^2 - 4x - 1}$$

$$\rightarrow \text{Domain } [-4, 12] \rightarrow \text{Domain } [-1, 10] \rightarrow \text{Domain } [-1, 10]$$

$$y_1 = \left(\frac{x+1}{1-x}\right)^{\frac{1}{2}} \rightarrow \frac{x+1}{1-x} > 0 \rightarrow \frac{-1}{-1+1} \rightarrow \text{Domain } [-1, 1]$$

$$y_2 = \frac{ax^2-1}{x^2+b} \rightarrow \text{Domain } [1, 1] \rightarrow a=1, b=1 \rightarrow a+b=2$$

$$[-1, 0] \rightarrow \frac{-1}{x} - \frac{x}{x} \rightarrow -\frac{1}{x} - 1$$

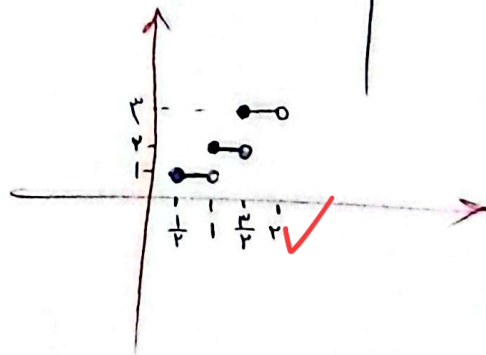
$$(0, 1) \rightarrow 1 \rightarrow [x_2, x_1] \rightarrow [0, 1]$$

$$x=1 \rightarrow 2$$

$$[\frac{1}{2}, 1] \rightarrow 0 + 1 = 1$$

$$[1, \frac{3}{2}] \rightarrow 1 + 1 = 2$$

$$[\frac{3}{2}, 2] \rightarrow 1 + 2 = 3$$



$\left(\frac{|a+1|}{|a|}\right)^2 < 1 \rightarrow -1 < \frac{a+1}{a} < 1$
 $(a+1)^2 - (a+3)^2 < 0$
 $a=1, b=-2$
 $a-b=3$
 $-a-1 \leq a+1 \leq a+3$
 $(-a-1)a \leq \varepsilon$
 $a \cdot b \rightarrow -ab - b \leq \varepsilon$
 $(a-1)a \leq -2$
 $a \cdot b \rightarrow ab - bz - 2 \rightarrow -ab - b \leq \varepsilon$
 $-2b \leq 2 \rightarrow b \geq -1$

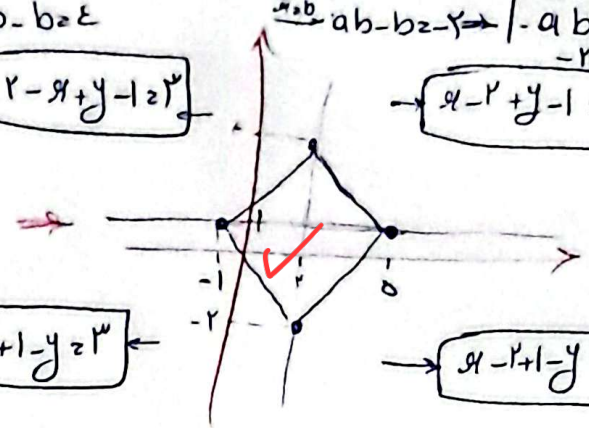
$a=2 \rightarrow \begin{vmatrix} 2 & 2 \\ 4 & -2 \end{vmatrix}$
 $b=1 \rightarrow \begin{vmatrix} 5 & -1 \\ 1 & 1 \end{vmatrix}$

$2 - a + y - 1 \leq 3$

$a - 2 + y - 1 \leq 3$

$2 - a + 1 - y \leq 3$

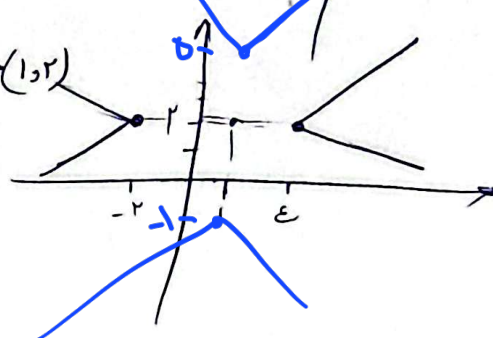
$a - 2 + 1 - y \leq 3$



$\text{الف} \rightarrow \text{مربع} \rightarrow \begin{vmatrix} 1 & 1 \\ 2 & 0 \end{vmatrix} \rightarrow \begin{vmatrix} 2 & 2 \\ 2 & 2 \end{vmatrix}$



$\text{ب} \rightarrow \ominus$
 لوگتہ بڑا لگے
 صحیح درجہ



$a \rightarrow \in \mathbb{R} \rightarrow$

$-3 < a < 3$

$\text{باید صحتی } \frac{p}{x_0}$

رضانی بر $\mathbb{R}$ است که شیب ها هم علامت باشند $\leftarrow m_1, m_2 > 0$

$-3 < a < 3$