

$$\begin{aligned} & \frac{1}{\mu} (x - \frac{1\nu}{\omega})^2 + \frac{\nu}{\omega} (x - \frac{1\nu}{\omega}) + \frac{1\nu}{\omega} \ln x / \text{است}, \frac{1\nu}{1\omega} (-\ln x) / \frac{\nu}{\omega} (-\frac{1\nu}{\omega}) \leftarrow \text{است} \\ & \hookrightarrow -\frac{b}{\mu a} = \Rightarrow \frac{1\nu}{\omega} = \frac{\nu}{1\omega} \\ & \textcircled{c} \quad y = -\frac{1}{\mu} (x - \frac{1\nu}{\omega})^2 + \frac{\nu}{\omega} \xrightarrow{y=0} -\frac{1}{\mu} (x - \frac{1\nu}{\omega})^2 = -\frac{\nu}{\omega} \rightarrow (x - \frac{1\nu}{\omega})^2 = a \end{aligned}$$

$1 - \gamma f(\gamma u + \gamma) \rightarrow \gamma u + \gamma = 1 \Rightarrow \gamma = -\frac{1}{u} \Rightarrow 1 - \gamma f(1) \Rightarrow \frac{\alpha}{\beta} \Rightarrow$
 $\alpha \times \beta = -\gamma$
 $\beta = -\gamma$
 $\alpha \cdot \beta = \frac{\gamma}{\mu}$

$$x - \sqrt{2x} = \frac{x+1}{2} > \frac{y_{x-1}}{2} > \frac{y+0}{2} = \frac{1}{2} \Rightarrow \sqrt{2x} + \frac{1}{2} = \frac{x+1}{2} \Rightarrow \sqrt{2x} + \frac{1}{2} = \frac{x+1}{2} \Rightarrow \sqrt{2x} = \frac{x}{2} \Rightarrow x = \frac{1}{2}$$

$$y = f(\underbrace{x-1}) + \cancel{g}(\underbrace{x+1})$$

$$\underbrace{x \rightarrow [a+1, \omega]}_{\substack{\downarrow \\ \hookrightarrow a = -x}} \quad \cap \quad \underbrace{[-x, b-1]}_{\substack{\downarrow \\ b = x}} \leftarrow \text{neg}$$

$$a - b = -x - x = -4$$

$f\left(\frac{x}{x+1}\right) \xrightarrow{\text{substitue } x} \xrightarrow{\text{simplify } x} \frac{f(x)}{x+1} \xrightarrow{x=1} \frac{1-1}{1+1} \xrightarrow{|1|} \rightarrow$
 $[-1, 0] \rightarrow [-1, 1] \Rightarrow [-1, 1] \text{ } x_{\text{y}} \text{ } (= \text{sub})$
 $[1, -1] \Rightarrow [-1, -1] \Rightarrow [1, 1] \text{ } (= \text{sub})$
 $\Phi = [-1, 1]$
 $\Phi = [0, \sqrt{5}]$

$$f(-\frac{1}{a}) = \frac{1}{f} \rightarrow -\frac{1}{a^r} (-1) = \frac{1}{f} \rightarrow a^r = r$$

$$b=1 \quad b-a=r$$

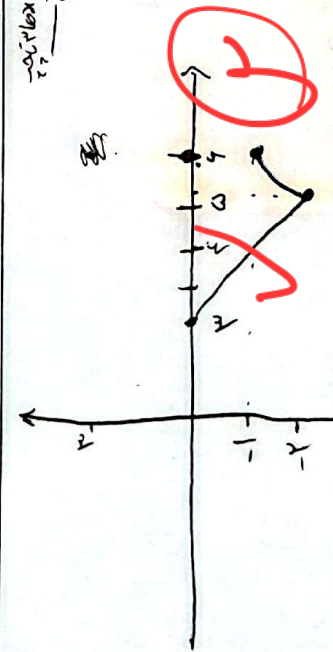
$$a=-r$$

$$\begin{cases} a=r \\ a=-r \end{cases}$$

$$f(x) = \frac{x-1}{x+1} \Rightarrow g(x) = \frac{x-1}{x+1} + \frac{x-1}{x+1} = g(x)$$

$$g(1) + g(-1) = (1+1)f(1) + (-1+1)f(-1) = 2$$

$$\frac{1}{x-1} > \frac{1}{x+1} \Rightarrow \frac{1}{x-1} - \frac{1}{x+1} > 0$$



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

$$\frac{x-1}{x+1} = 1 \Rightarrow x = 0$$

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$$f(x) = \frac{x-1}{x+1} \Rightarrow f(x) \geq 0 \Rightarrow \frac{x-1}{x+1} \geq 0 \Rightarrow x \geq 1 \text{ or } x < -1$$

$$\frac{1}{x} = \frac{1}{x} \Rightarrow x \leq \frac{1}{x} \Rightarrow x^2 \leq 1 \Rightarrow -1 \leq x \leq 1$$

$$x \in [-1, 1]$$

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