

0.125

1.25

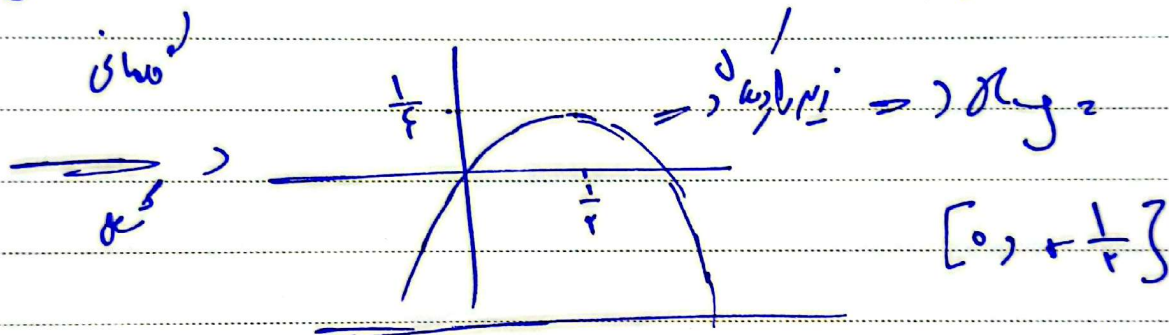
0.125

$$f(x+1) + f(x+2) = f(x) + f(x) = 2f(x)$$

$$f(x) = 2f(x) \Rightarrow f(x) = 0$$

$$f(x+1) + f(x+2) = f(x) + f(x) = 2f(x)$$

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



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

$$x^2 - 1 \neq 0 \Rightarrow x \neq \pm 1$$

$$(x-1)(x+1) = 0 \Rightarrow x = 1, -1$$

$$x^2 - 1 = 0 \Rightarrow x = [-1, 1] \setminus \{1\} = [-1, 1)$$

$$x \neq 1$$

$$\Rightarrow f\left(\frac{a+b}{x}\right), f\left(\frac{x-y}{-x}\right) = f(-1) \quad -x \text{ des } b$$

$$f(-1) = 1$$

$$y = \sqrt[3]{(x^3 + ax^2 + bx - 1)} \Rightarrow y = \sqrt[3]{(x-1)^3} \quad -x$$

$$\Rightarrow a = -4, b = 1 \quad \textcircled{1} \quad L: y = x-1 \Rightarrow x \in [-4, 1]$$

$$\Rightarrow -1 \leq x-1 \leq 1 \Rightarrow xy \in [-1, 1]$$

$$\left(\frac{x+1}{-x+1}\right)^{\frac{1}{2}} \Rightarrow \frac{x+1}{-x+1} \geq 0 \Rightarrow \frac{-}{-} \frac{+}{+} \frac{-}{-} \quad -x$$

$$\frac{ax^2-1}{x+b} \quad \begin{array}{l} x \rightarrow 0 \rightarrow \frac{1}{b} \\ x \rightarrow +\infty \rightarrow a \end{array} \quad \begin{array}{l} x \neq 1 \\ \textcircled{0} \end{array}$$

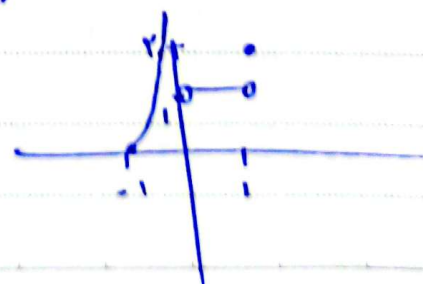
$$\Rightarrow \mathcal{A} \left[\frac{-1}{b}, a \right] = [-1, 1] \Rightarrow a = 1, b = 1$$

$$\Rightarrow 1 \leq x \leq 2$$

$$\Rightarrow x \geq -1 \Rightarrow [x] = -1 \Rightarrow \text{but } x = -1 \quad -0$$

$$\Rightarrow \frac{-1}{x} = 1 \Rightarrow x = -1 \Rightarrow \dots$$

$$x = 0^- \Rightarrow \dots$$



$$[n] \circ [n+1/r] \Rightarrow \frac{1}{r} \cdot n \in \mathbb{I} \Rightarrow [rn]_{21} \quad -4$$

$$1 \leq n \leq \frac{r}{r} \rightarrow [rn]_{21} \quad \frac{r}{r} (n \in \mathbb{I}) \rightarrow [rn]_{21} \quad -5$$



$$\left| \frac{n+1}{n+2} \right|_{21} \Rightarrow \frac{n+1}{n+2} \Rightarrow n+1 \in \mathbb{I} \Rightarrow n+1 \in \mathbb{I} \quad -6$$

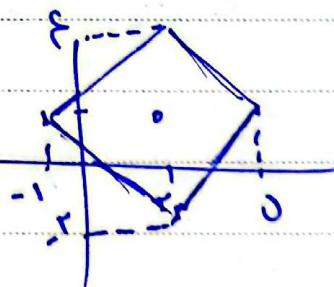
$$\Rightarrow rn_2 - \varepsilon = n_2 - r \Rightarrow b_2 - r, a_2 1$$

$$\Rightarrow a-b_2 \mid \varepsilon_2 \mu$$

$$|x-r| + |y-1|_{21} \quad -7$$

$$x_2 r \quad y_2 1$$

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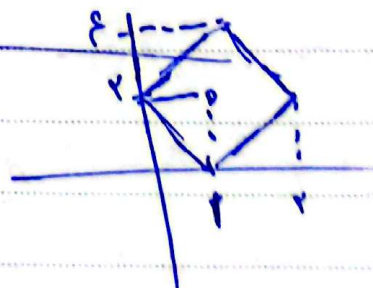


$$\mu \leq \varepsilon$$

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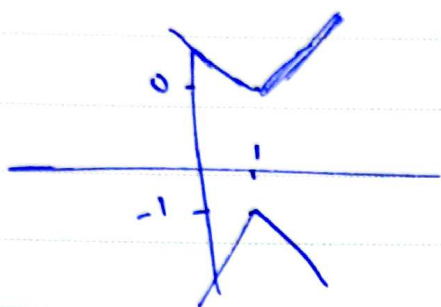
$$|x-1| + |y-r|_{21}$$

$$x_2 1 \quad y_2 r$$



$$-9$$

$$-1) |x-1| - |y-1|, -1 \leq x-1 \leq 1, |y-1| \leq 1$$



$$y=1 \quad x=1$$

неотрицательная величина

$$f(x) = \begin{cases} (x+a)x+b, & ax+b \geq 0 \\ (x-a)x+b, & ax+b < 0 \end{cases}$$

$$\Rightarrow x+a > 0 \Rightarrow a < x, \quad x+a > 0 \Rightarrow a > -x$$

$$\Rightarrow -x < a < x \Rightarrow |a| < x$$