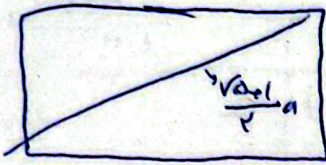


$$S_2 \leq L_{2 \text{ max}}$$

$$S_1 = L_{1 \text{ max}}$$

$$\Rightarrow \frac{S_2}{S_1} = \frac{L_{2 \text{ max}}}{L_{1 \text{ max}}} = \frac{\frac{1+\sqrt{5}}{2} \lambda n}{\frac{1}{\omega} \lambda n} = \frac{1+\sqrt{5}}{\omega}$$

(1)



$$a^2 + b^2 = \frac{1+\sqrt{5}}{2} a^2 \Rightarrow b^2 = \frac{1+\sqrt{5}}{2} a^2$$

$$\Rightarrow \frac{a}{b} = \frac{\sqrt{5}-1}{2}$$

(2)

$$a^2 - 1 \leq a + \frac{1}{a} \leq a^2 + \frac{1}{a} \Rightarrow \sqrt{a^2 - 1} \leq a + \frac{1}{a} \leq \sqrt{a^2 + 1}$$

$$a^2 - 1 \leq a + \frac{1}{a} \Rightarrow (a-1)(a+1) \leq a + \frac{1}{a}$$

دلی به غیر از این است که چون طرف را یک کال می کشی

$$a \leq \frac{1}{a} \Rightarrow \frac{a}{\sqrt{a^2 - 1}} \leq \frac{a}{1} \leq \frac{1}{a}$$

(3)

$$\sqrt{n+1} \left(\frac{1}{\sqrt{n-1} + n} - \frac{1}{\sqrt{n-1}} \right) = \sqrt{n+1} \Rightarrow \frac{\sqrt{n+1} (1 - \sqrt{n-1} - \sqrt{n-1} - n)}{1 - n} = \sqrt{n+1}$$

$$\sqrt{n+1} \left(\frac{-1 - \sqrt{n-1}}{1-n} \right) = \sqrt{n+1} \Rightarrow -1 - \sqrt{n-1} = 1-n$$

چون $n \geq 1$ است

$$\sqrt{n-1} = n-1 \Rightarrow \sqrt{n-1} = n-1$$

چون $n \geq 1$ است

(4)

$$\sqrt{1-n} \leq t \Rightarrow \frac{1}{t+1} + \frac{1}{t-1} \leq \frac{1}{\omega t} \Rightarrow \frac{t-1+t+1}{t^2-1} \leq \frac{1}{\omega t}$$

$$\frac{2t}{t^2-1} \leq \frac{1}{\omega} \Rightarrow t^2 - 1 \leq 2\omega t \Rightarrow t \leq \sqrt{1+4\omega}$$

$$\sqrt{1+4\omega} \leq \sqrt{1-n} \Rightarrow n \leq 1 - 4\omega$$

چون $n \geq 1$ است

$$\frac{(1-n)^n + n^n}{n^n (1-n)^n} \leq \frac{14}{9} \Rightarrow \frac{n^n - n^{n+1}}{n^n (n-1)^n} \leq \frac{14}{9}$$

$$n^{\mu} n_{\sigma f} \leq \frac{p(n^{\mu} - n) + 1}{(n^{\mu} - n)^2} \leq \frac{14}{9} \quad \Rightarrow \quad \frac{p f + 1}{t^{\mu}} \leq \frac{14}{9} \quad \Rightarrow \quad \frac{p^{\mu} p_{\sigma f} + 1}{t^{\mu}} \leq \frac{14}{9}$$

$$\Rightarrow \left(\frac{t+1}{t} \right)^n = \frac{149}{9} \quad \begin{matrix} \nearrow \\ \searrow \end{matrix} \quad \begin{matrix} \frac{t+1}{t} = \frac{1}{n} & \Rightarrow d = \frac{1}{n} \\ \frac{t+1}{t} = -\frac{1}{n} & \Rightarrow t = -\frac{n}{1} \end{matrix}$$

$$\left. \begin{array}{l} n^p - n \leq \frac{n}{t} \\ n^p - n \leq \frac{n}{t_2} \end{array} \right\} \Rightarrow n^p - n \leq \frac{n}{t} \Rightarrow s_1 \leq 1$$

$$-n^{\omega} \cdot n^{\omega} (\omega - 1) \cdot \gamma \Rightarrow (n^{\omega} \omega) (1 - n) \gamma \Rightarrow \frac{-\omega \cdot \omega}{+1 - 1 + 1} =$$

$$(\omega - 1) \cup [1, \omega]$$

$$-m^2 + 4m - 1 \geq 0 \Rightarrow (m-1)(m-3) \geq 0 \Rightarrow \frac{1}{-1+1-} \Rightarrow \frac{1}{(m-1)} (II)$$

4) 5121. 5325

$$y \in \{n, n-1, \dots, 1\} \rightarrow \begin{cases} y = n & n, 1 \\ y = r & -r \leq n \leq 1 \\ y = -r-1 & -r \leq n \end{cases}$$

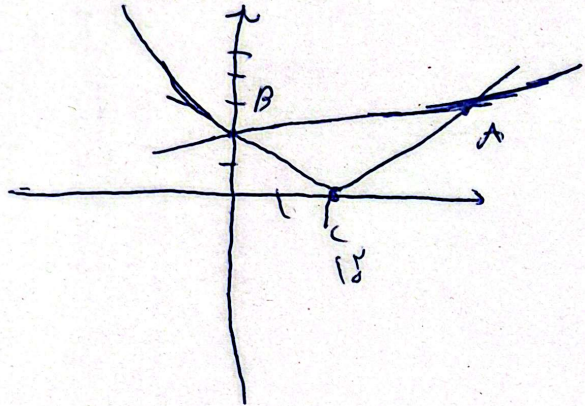
$$\left. \begin{aligned} |n-1| &= -\frac{1}{\mu} n + \frac{1}{\mu} \Rightarrow n \leq 1 \Rightarrow \text{مقدار } n \text{ کوچکتر از 1 است} \\ \mu &= -\frac{1}{\mu} n + \frac{1}{\mu} \Rightarrow n \leq 1 \Rightarrow \text{مقدار } n \text{ کوچکتر از 1 است} \\ -|n-1| &= -\frac{1}{\mu} n + \frac{1}{\mu} \Rightarrow n = -1 \Rightarrow \text{مقدار } n \text{ برابر با -1 است} \end{aligned} \right\} \Rightarrow \Delta |A|, B| - \epsilon$$

$$\overline{AB} = \sqrt{(4)^2 + (-2)^2} = \sqrt{20} = 2\sqrt{5}$$

4

$$y = \sqrt{n^p - n^p \epsilon} = \sqrt{(n-p)^p} = |n-p|$$

$$y' = \frac{1}{p} n^{p-1}$$



$$n-p \leq \frac{1}{p} n^{p-1} \leq n-1 \leq y$$

$n \geq p$

$$-n-p \leq \frac{1}{p} n^{p-1} \leq n \leq y$$

$n < p$

$$\Delta |y| \quad |B|_p$$

$$|AB| = \frac{1}{p} n^{p-1}$$

$$y - n - p \leq 0$$

$$|AB| = \sqrt{n^p - \epsilon^p} = \epsilon \sqrt{\epsilon}$$

$$\frac{1-p-\epsilon}{\sqrt{\epsilon}} \left(\frac{y}{\sqrt{\epsilon}} \leq C(H) \right)$$

$$S = \frac{\epsilon \sqrt{\epsilon} \cdot \frac{y}{\sqrt{\epsilon}}}{n} \leq (1-p)$$

$$\frac{n^{p-1} n^p}{n^{p-1} n^p} \leq \frac{1}{p}$$

$$n^{p-1} n^p \leq p \cdot n^{p-1}$$

1.

$$n^{p-1} n^p \leq p \cdot n^{p-1}$$

$n \geq p$
 $n \leq -a$
 $0 \leq \epsilon \leq 1$

شماره ۱ در ۵ ساعت

شماره ۲ در ۵ ساعت