



« بازار هم (خبر) »

« بازار هم »

نهر لاری، طایفه 11 :

$$S_1 \leq KK \times \omega K \leq P \cdot K^2 \quad \frac{x'}{y} = \frac{1+\sqrt{\omega}}{r} \xrightarrow{y=\varepsilon K} x' \leq \varepsilon K \left(1+\frac{\sqrt{\omega}}{r}\right) \quad 1$$

$$\frac{x}{y} \leq \frac{\omega}{\varepsilon} \rightarrow y \leq KK \quad x \leq \omega K \rightarrow S_2 \leq \varepsilon K \times \varepsilon K \left(1+\frac{\sqrt{\omega}}{r}\right) = 14K^2 \left(1+\frac{\sqrt{\omega}}{r}\right) \quad 10$$

$$\frac{S_2}{S_1} \leq \frac{14K^2 \left(1+\frac{\sqrt{\omega}}{r}\right)}{P \cdot K^2} = \frac{\varepsilon}{\omega} \left(1+\frac{\sqrt{\omega}}{r}\right) = \frac{P}{\omega} \left(1+\frac{\sqrt{\omega}}{r}\right) \quad 11$$

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$$\frac{\text{قطر}}{\text{طول}} = \frac{1+\sqrt{\omega}}{r}$$

$$\frac{\sqrt{x^2+y^2}}{x} = \frac{1+\sqrt{\omega}}{r} \rightarrow \frac{x^2+y^2}{x^2} = \left(1+\frac{\sqrt{\omega}}{r}\right)^2 \quad 12$$

$x \rightarrow \text{طول}$

$y \rightarrow \text{عرض}$

$\text{قطر} \rightarrow \sqrt{x^2+y^2}$

$$\rightarrow \frac{y^2}{x^2} = \left(1+\frac{\sqrt{\omega}}{r}\right)^2 - \varepsilon \quad 13$$

10

$$\frac{y^2}{x^2} = \frac{1+\omega+r\sqrt{\omega}-\varepsilon}{r^2} = \frac{r+r\sqrt{\omega}}{\varepsilon} \rightarrow \frac{1+\sqrt{\omega}}{r} \rightarrow \frac{x^2}{y^2} = \frac{r}{1+\sqrt{\omega}} \quad 15$$

14

$$\sqrt{P\alpha^2+\varepsilon\alpha} \leq P - P\alpha \quad 17$$

18

$$P\alpha^2+\varepsilon\alpha \leq \varepsilon+4\alpha^2-11\alpha \rightarrow 10\alpha^2-14\alpha+\varepsilon \leq 0 \rightarrow \alpha^2-14\alpha+P1 \leq 0 \quad 19$$

$$\left(\alpha - \frac{1\varepsilon}{V}\right) \left(\alpha - \frac{P}{V}\right) \rightarrow \alpha \leq P \times \text{قوة}$$

$$\alpha \leq \frac{P}{V} \rightarrow \text{قوة}$$

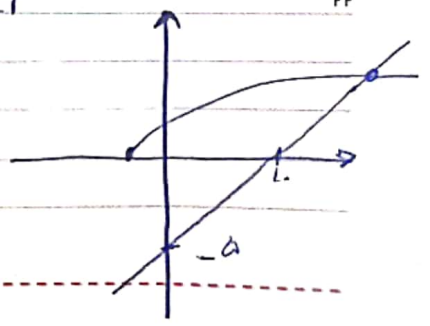
$$\frac{\frac{P}{V}+1}{\frac{P}{V}} \rightarrow \frac{\frac{1}{V}}{\frac{P}{V}} = \varepsilon, \omega$$

$$\frac{\sqrt{x+1} (P-\sqrt{x-1}) - \sqrt{x+1} (\sqrt{x-1}+P)}{9-(x-1)} = \frac{(\sqrt{x-1})^2}{\sqrt{x-1}} = \varepsilon \quad 21$$

22

$$\rightarrow \frac{P\sqrt{x+1} - \sqrt{x^2-1} - \sqrt{x^2-1} - P\sqrt{x+1}}{1-x} = \sqrt{x-1} \quad 23$$

$$\frac{-P\sqrt{x^2-1}}{1-x} = \sqrt{x-1} \rightarrow -P\sqrt{x-1} \sqrt{x+1} \leq (1-x)\sqrt{x-1}$$



$$\text{بفرض } \sqrt{x-1} \neq 0 \quad -P\sqrt{x+1} \leq 1-x \rightarrow \sqrt{x+1} \leq \frac{1-x}{P} = \omega$$

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$$\frac{1 - \sqrt{1-x} - \sqrt{1-x} - 1}{\varepsilon - 1 + x} = \frac{(\sqrt{1-x})^2}{\omega \sqrt{1-x}}$$

$$\frac{-1 \sqrt{1-x}}{1+x} = \frac{1-x}{\omega \sqrt{1-x}} \rightarrow -1 \cdot (1-x) \leq \varepsilon - x^2$$

صوب قسب انارة!

$$x^2 + 1 \cdot x - 1 \varepsilon \leq 0 \rightarrow (x+1)(x-1) \leq 0 \rightarrow x \leq -1 \text{ أو } x \geq 1$$

المنطق $x \leq -1$ غير ممكن

$$\left(\frac{1}{x}\right)^2 + \left(\frac{1}{1-x}\right)^2 \leq \frac{14}{9} \rightarrow \left(\frac{1}{x} + \frac{1}{1-x}\right)^2 - 2\left(\frac{1}{x} \cdot \frac{1}{1-x}\right)$$

$$\rightarrow \left(\frac{1-x+x}{x-x^2}\right)^2 - \frac{2}{x-x^2} \rightarrow \left(\frac{1}{x-x^2}\right)^2 - \frac{2}{x-x^2} \leq \frac{14}{9}$$

$$\frac{1}{x-x^2} \leq t \rightarrow t^2 - 2t + 1 \leq \frac{14}{9} + 1 \rightarrow (t-1)^2 \leq \frac{14}{9}$$

$$t-1 \leq \pm \frac{\sqrt{14}}{3} \rightarrow t \leq \frac{14}{3} - \frac{1}{3} \rightarrow \frac{1}{x-x^2} \leq \frac{14}{3} \rightarrow -x^2 + x - \frac{3}{14} \leq 0 \Rightarrow S_1 \cup 1$$

$$\frac{1}{x-x^2} \geq -\frac{1}{3} \rightarrow -x^2 + x + \frac{1}{3} \geq 0 \Rightarrow S_2$$

$$\boxed{S_1 + S_2 \cup S_3}$$

$$\sqrt{-x^2 + 4x - 1} \rightarrow x^2 - 4x + 1 \leq 0 \rightarrow (x-2)(x-1) \leq 0$$

$$\frac{1}{x-x^2} \leq \frac{1}{x-x^2} \rightarrow [1, 2]$$

$$\sqrt{-x^2 + \varepsilon x^2 + 10x - 1} \rightarrow x^2 - \varepsilon x^2 - 10x + 1 \leq 0 \rightarrow (x^2 - 10x) - (\varepsilon x^2 - 1) \leq 0$$

$$\rightarrow x(x-10) - \varepsilon(x^2 - 1) \leq 0 \rightarrow (x-\omega)(x+\omega)(x-\varepsilon) \leq 0 \rightarrow \frac{-\omega}{-1} \leq \frac{\varepsilon}{1} \leq \frac{\omega}{1}$$

$$(1) (-\omega, -1) \cup [\varepsilon, \omega] \rightarrow (1) \cap (2) \rightarrow x \leq \varepsilon$$

$$\sqrt{\varepsilon + \sqrt{-4\varepsilon + 4\varepsilon + 1}} - 1 + \sqrt{14 + \sqrt{-14 + 14\varepsilon - 1}} \leq 4 \rightarrow x \leq \varepsilon$$



$$\begin{array}{c|c|c} -2 & 1 & \\ \hline -x-2x+1 & x+2-x+1 & x+2+x-1 \\ \hline (-2x-1) & (3) & 2x+1 \end{array}$$

$$\frac{1^2 - 2x + 1}{1^2}$$

$$x \leq 1 \quad x \geq 1$$

$$\begin{cases} y + 2x = -1 \\ 3y + 2x = 1 \end{cases}$$

$$\begin{aligned} & -2x = 2 \\ & 3y = 3 \\ & y = 1 \end{aligned}$$

$$\begin{cases} y - 2x = 1 \\ 3y + 2x = 1 \end{cases}$$

$$\begin{aligned} & -2x = 2 \\ & 3y = 3 \\ & y = 1 \end{aligned}$$

-1

$$AB = \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{4 + 9} = \sqrt{13}$$

$$\begin{cases} y + x = 2 \\ -y + \frac{x}{2} = -2 \end{cases}$$

$$\begin{cases} y - x = -2 \\ -y + \frac{x}{2} = -2 \end{cases}$$

-4

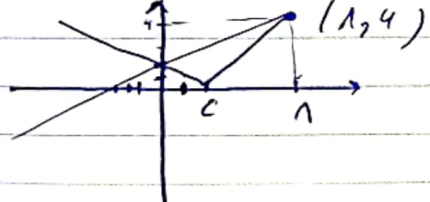
$$\frac{1}{2}x = 0 \rightarrow x = 0$$

$$\frac{-1}{2}x = -2 \rightarrow x = 4$$

$$\sqrt{(x-2)^2} = |x-2| \quad \frac{2}{-x+2} = \frac{2}{2-x}$$

$$S = \frac{2\sqrt{2} \times 4\sqrt{2}}{2} = 8$$

$$\text{Area } A = \frac{|4+1-2|}{\sqrt{2}} = \frac{3}{\sqrt{2}} \quad BC = \sqrt{4+9} = \sqrt{13}$$



$$\frac{1}{x} + \frac{1}{x+9} = \frac{1}{10} \rightarrow 10(x+9) + 10x = x(x+9)$$

$$10x + 110 + 10x = x^2 + 9x \rightarrow x^2 - 11x - 110 = 0$$

$$(x-14)(x+7) = 0 \rightarrow x = 14 \quad x = -7$$

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