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((بازار هم (خبر))

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نظر لاریانی، تکلیف 11:

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

$$\frac{x}{y} = \frac{\omega}{\varepsilon} \rightarrow y = KK \quad x = \omega K \rightarrow S_2 = EK \times EK \left(\frac{1+\sqrt{\omega}}{r} \right) = 14K^2 \left(\frac{1+\sqrt{\omega}}{r} \right) \quad 5.$$

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

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

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

x → طول

y → عرض

قطر → $\sqrt{x^2+y^2}$

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

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

$$\sqrt{P\alpha^2 + \varepsilon\alpha} = P - P\alpha$$

$$P\alpha^2 + \varepsilon\alpha = \varepsilon + 4\alpha^2 - 11\alpha \rightarrow 7\alpha^2 - 14\alpha + \varepsilon = 0 \rightarrow \alpha^2 - 14\alpha + P = 0 \quad 18$$

$$\left(\alpha - \frac{1\varepsilon}{7} \right) \left(\alpha - \frac{P}{7} \right) \rightarrow \alpha = P \times \text{قوة}$$

$$\alpha = \frac{P}{7} \rightarrow \text{قوة}$$

$$\frac{P}{7} + 1$$

$$\frac{1}{7} \rightarrow \frac{1}{7} = \varepsilon, \omega$$

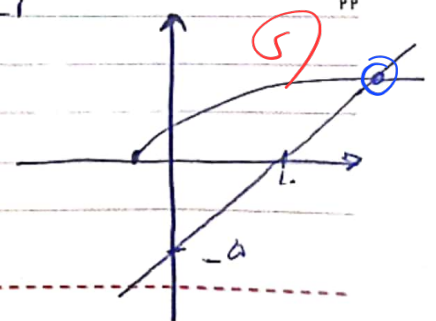
$$\frac{\sqrt{x+1} (3-\sqrt{x-1}) - \sqrt{x+1} (\sqrt{x-1}+3)}{9-(x-1)} = \frac{(\sqrt{x-1})^2}{\sqrt{x-1}} = \varepsilon$$

$$\rightarrow \frac{3\sqrt{x+1} - \sqrt{x^2-1} - \sqrt{x^2-1} - 3\sqrt{x+1}}{10-x} = \sqrt{x-1}$$

$$\frac{-2\sqrt{x^2-1}}{10-x} = \sqrt{x-1} \rightarrow -2\sqrt{x-1} \sqrt{x+1} = (10-x)\sqrt{x-1}$$

$$\text{بهره} \rightarrow \sqrt{x-1} \neq 0 \rightarrow -2\sqrt{x+1} = 10-x \rightarrow \sqrt{x+1} = \frac{x}{10} = \omega$$

جواب نهایی نوشته شود (بدون اشتباه)



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الكلية

Sunday

23 Nov 2014

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محرم

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

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

$$-1 + 1 \cdot x \cdot \varepsilon - x^2$$

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

النتيجة $x = 1$ هي الحل

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

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

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

$$t-1 = \pm \frac{\sqrt{14}}{3} \rightarrow t = \frac{14}{3} \pm \frac{\sqrt{14}}{3} \rightarrow \frac{1}{x-x^2} = \frac{14}{3} \pm \frac{\sqrt{14}}{3} \rightarrow x^2 - 14x + \frac{\sqrt{14}}{3} = 0$$

$$\frac{1}{x-x^2} = \frac{1}{3} \rightarrow x^2 - 14x + \frac{1}{3} = 0 \Rightarrow S_1 \text{ و } S_2$$

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

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

$$\sqrt{-x^3 + 8x^2 + 10x - 1} \rightarrow x^3 - 8x^2 - 10x + 1 = 0 \rightarrow (x^3 - 10x) - (8x^2 - 1) = 0$$

$$\rightarrow x(x^2 - 10) - 8x^2 + 1 = 0 \rightarrow (x-10)(x+10)(x-1) = 0 \rightarrow x = 1 \text{ أو } x = 10 \text{ أو } x = -10$$

$$(1) (-\infty, 0) \cup [1, 10] \rightarrow (1) \cap (2) \rightarrow x = 1$$

$$\sqrt{x + \sqrt{-4x^2 + 4x + 1}} = 1 \rightarrow \sqrt{14 + \sqrt{-14x^2 - 1}} = 4 \rightarrow x = 1 \text{ أو } x = -1$$



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

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

$$x \leq 1 \quad x \geq 0 \quad x \geq 0$$

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

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

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

$$\begin{aligned} & 4y = 2 \\ & y = \frac{1}{2} \end{aligned}$$

-1

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

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

$$\frac{3}{2}x = -4 \rightarrow x = -\frac{8}{3}$$

$$y = 2 - x = 2 + \frac{8}{3} = \frac{14}{3}$$

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

$$\frac{-1}{2}x = -4 \rightarrow x = 8$$

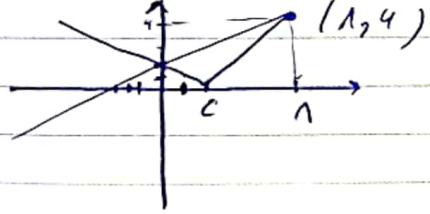
$$y = -2 - x = -10$$

-4

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

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

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



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

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

$$(x-14)(x+10) = 0 \rightarrow x = 14 \quad x = -10$$

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