

Subject _____

Date : / /

1A: سوالی

n با 2 هم در نظر

در مساحت

$$n = \omega a$$

$$\boxed{} y = \varepsilon a$$

$$\frac{n}{y} = \frac{\omega}{r} \rightarrow \frac{\omega a + b}{r a} = \frac{1 + \sqrt{\omega}}{r}$$

-1

$$10a + 2b = r a + \varepsilon a \sqrt{\omega} \rightarrow 2b = -9a + r a \sqrt{\omega}$$

$$b = -\frac{9}{2}a + r a \sqrt{\omega} \rightarrow \text{معادله اول در نظر$$

$$\text{در دو طرف} \Rightarrow \omega a - \frac{9}{2}a + r a \sqrt{\omega} \rightarrow r a + r a \sqrt{\omega}$$

$$\frac{(r + r\sqrt{\omega})}{\omega} \frac{(r a + r a \sqrt{\omega})(\varepsilon a)}{(\omega a)(r a)}$$

-2

$$\frac{\text{قطر}}{\text{دایره}} = \frac{1 + \sqrt{\omega}}{r} \rightarrow (\text{قطر})^2 = (\text{دایره})^2 + (\text{ارتفاع})^2$$

$$r + r\sqrt{\omega} = \varepsilon + (\text{ارتفاع})^2 \rightarrow \text{ارتفاع} = \sqrt{r + r\sqrt{\omega}}$$

$$\left(\frac{\text{دایره}}{\text{ارتفاع}}\right)^2 \rightarrow \frac{r}{\sqrt{r + r\sqrt{\omega}}} = \sqrt{\frac{r}{r + r\sqrt{\omega}}} = \sqrt{\frac{r}{1 + \sqrt{\omega}}}$$

$$\frac{r}{1 + \sqrt{\omega}}$$

$$\sqrt{r a^2 + r a} = r - \frac{9}{2}a \rightarrow r a^2 + \varepsilon a = r + 9a^2 - 12a$$

-3

$$\sqrt{a^2 - 14a + \varepsilon} = 0 \rightarrow \frac{14 \pm 12}{12} = \frac{r}{\sqrt{r}} \vee \frac{r}{\sqrt{r}} + \frac{r}{\sqrt{r}} = \frac{4}{r}$$

$$\frac{r}{\sqrt{r}} + \frac{r}{\sqrt{r}} = \frac{4}{r}$$

$$\sqrt{1 + 1} \neq r - 9$$

جانبیاری ← 2 درست است و غیر قابل قبول

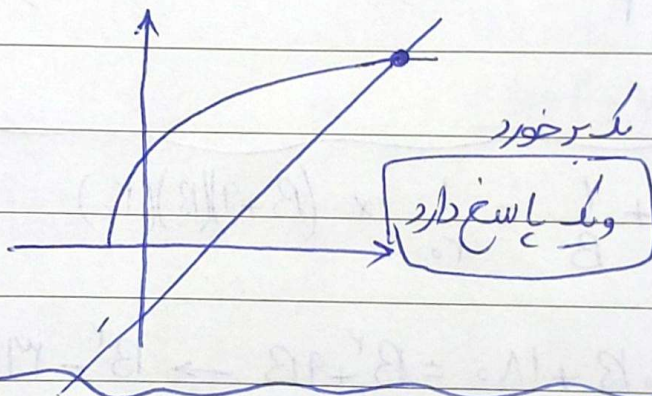
$$\frac{\sqrt{x+1}}{\sqrt{x-1}+1} - \frac{\sqrt{x+1}}{1-\sqrt{x-1}} = \frac{x-1}{\sqrt{x-1}}$$

-K

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

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

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



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

$$-10 = x+1 \rightarrow x = -11$$

نقطه اشتقاق است پس در این نقطه مشتق ندارد

$$\frac{1}{n^2} + \frac{1}{(1-n)^2} = \frac{14}{9}$$

-9

$$\left(\frac{1}{n} - \frac{1}{n-1}\right)^2 + 2\left(\frac{1}{n^2-n}\right) = -\frac{14}{9} = 0 \rightarrow \text{Crossed out}$$

پاسخ: $\Rightarrow \left(\frac{n-1-n}{n^2-n} + \frac{14}{9}\right) \left(\frac{-1}{n^2-n} - \frac{10}{9}\right) = 0$

$$\left(\frac{-3+14n^2-14n}{9n^2-9n}\right) \left(\frac{-3-10n^2+10n}{9n^2-9n}\right)$$

پاسخ: $14n^2-14n-3=0 \rightarrow \Delta > 0$ $\frac{14}{14} \text{ (1)} \leftarrow \text{ع 1}$
 $10n^2+10n-3=0 \rightarrow \Delta < 0$

$$\sqrt{n + \sqrt{-n^2 + 2n + 2\omega n - 10}} + \sqrt{n^2 + \sqrt{-n^2 + 4n - 1}} = n + 2 \quad -V$$

$\underbrace{-n^2(n-\varepsilon) + 2\omega(n-\varepsilon)}_{\substack{-(n-2)(n-\varepsilon) \\ 2, \varepsilon}}$

$$(n-\varepsilon)(-n^2+2\omega) \Rightarrow (n-\varepsilon)(n-\omega)(n+\omega)$$

$$\begin{array}{c|ccc} & -\omega & \omega & \\ \hline & + & - & + \\ \hline & \omega & 0 & \omega \end{array}$$

$$\omega, -\omega, \varepsilon$$

$$\begin{array}{c|ccc} n & 2 & \varepsilon & \\ \hline & - & + & - \\ \hline & \omega & 0 & \omega \end{array}$$

$$[2, \varepsilon]$$

$$[-\infty, -\omega] \cup [\varepsilon, \omega]$$

استراک (افزاینده های این)

" و قسمت ۲ می باشد پس ۴ را امتحان می کنیم "

$$\boxed{K} \text{ لاغری}$$

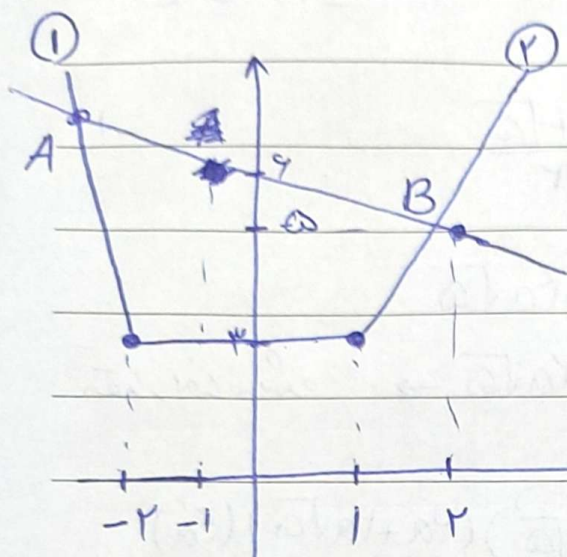
$$\sqrt{4 + \sqrt{-4\varepsilon + 4\varepsilon + 100 - 100}} + \sqrt{14 + \sqrt{-14 + 2\varepsilon - 1}} = 4 + 2 \quad \checkmark$$

$\underbrace{\quad}_{(2)} + \underbrace{\quad}_{(2)} = \underbrace{\quad}_{(4)}$

نقطه‌های ۱ و ۲

باز هم در خط B

برسایط جابجایی



$$y = |x+2| + |x-1|$$

-A

$$3y + x = 17 \rightarrow y = \frac{17}{3} - \frac{x}{3}$$

$$\begin{array}{c|c} x & y \\ \hline 2 & 5 \\ -1 & 6 \end{array}$$

* نکته از این بر خوردها دیشاخی
اولی در شایخی ۲ است بنابراین:

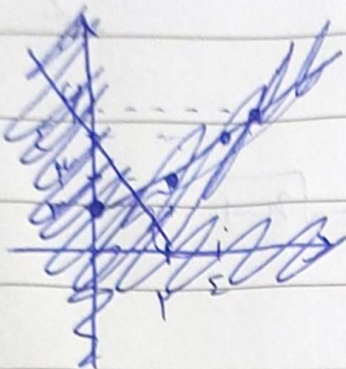
$$1) \quad x+2+x-1 = \frac{17}{3} - \frac{x}{3} \rightarrow 2x+1 = \frac{17}{3} - \frac{x}{3} \rightarrow 6x+3 = 17-x \rightarrow 7x = 14$$

$$2) \quad -x-2-x+1 = \frac{17}{3} - \frac{x}{3} \rightarrow -2x-1 = \frac{17}{3} - \frac{x}{3} \quad (x=2, y=5)$$

$$-6x-3 = 17-x \rightarrow -5x = +20 \rightarrow (x=-4, y=7)$$

$$AB \rightarrow \sqrt{3y+6} = \sqrt{50} = 2\sqrt{10}$$

$$\sqrt{x^2 - 5x + 2} = \sqrt{(x-2)^2} = |x-2| \quad -9$$



$$|x-2| = \frac{1}{r}x + r$$

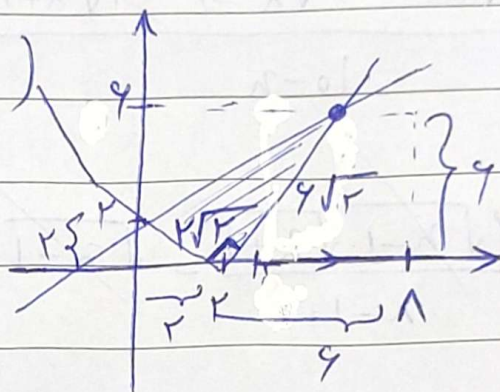
$$x-2 = \frac{1}{r}x + r \rightarrow rn - 2 = n + r$$

$$(n=1, y=\frac{9}{4})$$

$$-x + r = \frac{1}{r}x + r \rightarrow -rn = n$$

$$(n=0, y=r)$$

$$\frac{r\sqrt{r} \times 9\sqrt{r}}{r} = 14$$



$$\frac{1}{B+9} + \frac{1}{B} = \frac{1}{r_0} \times (B+9)(B)(r_0)$$

-10

$$r_0 B + r_0 B + 110 = B^2 + 9B \rightarrow B^2 - 31B - 110$$

$$(B-34)(B+1) \rightarrow B = -1 \text{ or } 34$$

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