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گروه انزیم دفتر C

تکلیف لیلا ابراهیمی شماره ۱۸

عرضه y طول x

$$S_1 = \sum k \times \delta k = 2 \cdot k^2$$

$$\frac{x}{y} = \frac{a}{r} \rightarrow y = rk$$

$$x = dk$$

$$\frac{x'}{y} = \frac{1+\sqrt{5}}{r} \quad y = rk \quad x' = \sum k \left(1 + \frac{\sqrt{5}}{r}\right)$$

$$= S_2 = \sum k \times \sum k \left(1 + \frac{\sqrt{5}}{r}\right) = 14k^2 \left(\frac{1+\sqrt{5}}{r}\right)$$

$$\frac{S_2}{S_1} = \frac{14k^2 \left(\frac{1+\sqrt{5}}{r}\right)}{2 \cdot k^2} = \frac{r}{2} \left(\frac{1+\sqrt{5}}{r}\right) = \boxed{\frac{r}{2} (1+\sqrt{5})}$$

عرضه y طول x

$$\text{مقدار} = \sqrt{x^2 + y^2}$$

$$\frac{\text{مقدار}}{\delta \text{ طول}} = \frac{1+\sqrt{5}}{r}$$

$$\frac{\sqrt{x^2 + y^2}}{x} = \frac{1+\sqrt{5}}{r} \Rightarrow \frac{x^2 + y^2}{x^2} = \frac{(1+\sqrt{5})^2}{r^2} \xrightarrow[\text{درمفوج}]{\text{تفصیل صفر}} \frac{y^2}{x^2} = \frac{(1+\sqrt{5})^2 - r^2}{r^2}$$

$$\frac{y^2}{x^2} = \frac{1+5+2\sqrt{5}-r^2}{r^2} = \frac{r^2+2\sqrt{5}}{r^2} = \frac{1+\sqrt{5}}{r} \Rightarrow \boxed{\frac{x^2}{y^2} = \frac{r}{1+\sqrt{5}}}$$

$$\sqrt{2a^2 + 4a} = 2 - 3a$$

$$2a^2 + 4a = 4 - 12a + 9a^2 \Rightarrow 7a^2 - 16a + 4 = 0 \Rightarrow a^2 - 14a + 2 = 0$$

$$\left(a - \frac{14}{7}\right) \left(a - \frac{2}{7}\right) \Rightarrow a = \frac{2}{7} \quad \text{در ضرایب صفر}$$

$$\Rightarrow a = \frac{2}{7} \quad \checkmark \text{ قابل قبول}$$

$$\frac{\frac{2+1}{7}}{\frac{2}{7}} \Rightarrow \frac{\frac{3}{7}}{\frac{2}{7}} \Rightarrow \frac{3}{2} = \boxed{1.5}$$

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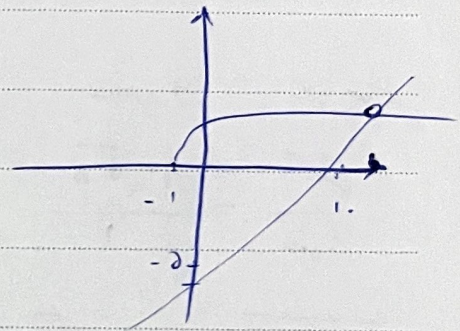
$$\frac{\sqrt{x+1}(\sqrt{x-1} - \sqrt{x+1}) - \sqrt{x+1}(\sqrt{x-1} + \sqrt{x+1})}{9 - (x-1)} = \frac{(\sqrt{x-1})^2}{\sqrt{x-1}}$$

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

$$\frac{-2\sqrt{x+1}}{10 - x} = \sqrt{x-1} \quad \sim \quad -2\sqrt{x+1} = (10 - x)\sqrt{x-1}$$

$$-2\sqrt{x+1} = 10 - x \rightarrow \sqrt{x+1} = \frac{x}{2} - 5$$

(مربع طرفین)



$$\frac{2\sqrt{r-x} - \sqrt{r-x} - 2}{\Sigma + r + x} = \frac{(\sqrt{r-x})^2}{2\sqrt{r-x}} \rightarrow \frac{-2\sqrt{r-x}}{r+x} = \frac{r-x}{2\sqrt{r-x}}$$

$$-1 \cdot (r-x) = \Sigma - x^2 \Rightarrow -r + 1 \cdot x = \Sigma - x^2 \rightarrow x^2 + 1 \cdot x - 2\Sigma = 0$$

$$(x+1)(x-2) = 0 \quad \begin{cases} x = -1 \text{ غلط} \\ x = 2 \text{ غلط} \end{cases}$$

چون فیج طرفین

(جواب نادر)

$$\left(\frac{1}{2}\right)^r + \left(\frac{1}{1-x}\right)^r = \frac{14}{9} \rightarrow \left(\frac{1}{2} + \frac{1}{1-x}\right)^r - 2\left(\frac{1}{2} \times \frac{1}{1-x}\right)^r = 0$$

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

$$t^r - r t + 1 = \frac{14}{9} + 1 \quad (t-1)^r = \frac{149}{9} \rightarrow t-1 = \pm \frac{1}{9}$$

$$t = \frac{14}{9} \quad \frac{1}{x-x^r} = \frac{14}{9} \rightarrow S_1 = 1$$

$$t = -\frac{1}{9} \quad \frac{1}{x-x^r} = -\frac{1}{9} \rightarrow S_2 = 1$$

$$S_1 + S_2 = 2$$

Elipon

Date:

Sub:

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

$$\frac{r}{+} \frac{r}{b-d} \frac{r}{+} \Rightarrow [r, r] \text{ (1)}$$

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

$$\Rightarrow x(x^2 - 2d) - 2(x^2 - 2d) \leq 0$$

$$\frac{-d \quad r \quad d}{-d+d-r+}$$

$$(-\infty, -d] \cup [2, d] \text{ (2)}$$

$$(n-d)(n+d)(n-2) \leq 0$$

$$(1) \cap (2) \Rightarrow n = r$$

$$\sqrt{2} + \sqrt{-42 + 42 + 1} + \sqrt{14 + \sqrt{-14 + 42 - 1}} = 2 + r = 4$$

$$\boxed{x = 2}$$

دقيق
(نقطة)

$$\frac{-r}{-x-r-x+1} \quad \frac{1}{x+r-x+1} \quad \frac{1}{x+r-x+1}$$

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

$$n = \frac{1}{2} x$$

$$\begin{cases} y + rx = -1 \\ ry + x = 10 \end{cases}$$

$$-dx = r$$

$$x = -2$$

$$y = 5 \rightarrow B$$

$$\begin{cases} y - rx = 1 \\ ry + x = 10 \end{cases}$$

$$rx = 12$$

$$x = r$$

$$y = 8 \rightarrow A$$

$$AB = \sqrt{16x^2 + 16y^2} = \sqrt{16(4+25)} = \sqrt{16 \cdot 29} = 4\sqrt{29}$$

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

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

$$-\frac{1}{r}x = -2 \Rightarrow x = 2 \Rightarrow A$$

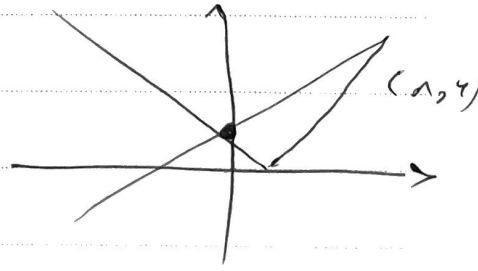
$$\frac{r}{r}x = 0 \Rightarrow x = 0$$

$$y = r$$

$$\text{إحداثيات } A = \frac{14 + n - r}{\sqrt{r}} = \frac{14\sqrt{r}}{r} = 4\sqrt{r}$$

$$BC = \sqrt{4 + 2} = 2\sqrt{2}$$

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



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$$\frac{1}{n} + \frac{1}{n+9} = \frac{1}{2} \Rightarrow 2(n+9) + 2n = n(n+9)$$

$$2n + 18 + 2n = n^2 + 9n \Rightarrow n^2 - 4n - 18 = 0$$

$$(n-14)(n+2) = 0$$

$$n = 14 \quad \checkmark \text{ قابل قبول}$$

$$n = -2 \quad \times \text{ قابل قبول}$$

بهرزمنه نهایی در
۱۴ است تا به ۱۴ برسید

5