

$$\frac{n}{y} \rightarrow \frac{n}{y} = \frac{a}{r} = \frac{n^2}{y} = \frac{1+\sqrt{5}}{2} : \frac{s_2}{s_1} = ?$$

$$\frac{s_2}{s_1} = \frac{n^2 y}{n y} = \frac{y(1+\sqrt{5})}{y(\frac{a}{r})} = \frac{r(1+\sqrt{5})}{a}$$

$$\frac{z}{n} = \frac{1+\sqrt{5}}{2} \Rightarrow (\frac{n}{y})^2 = ?$$

$$z = \frac{1+\sqrt{5}}{2} n : n^2 + y^2 = z^2 = (\frac{1+\sqrt{5}}{2})^2 n^2 \Rightarrow y^2 = n^2 (\frac{1+\sqrt{5}}{2})^2 - 1$$

$$\Rightarrow \frac{n^2}{y^2} = \frac{n^2}{n^2 (\frac{1+\sqrt{5}}{2})^2} = \frac{r}{1+\sqrt{5}} \xrightarrow{\text{عوض}} \frac{r\sqrt{5}-r}{r} = \frac{\sqrt{5}-1}{2}$$

$$ra + \sqrt{ra^2 + \varepsilon a} = r \rightarrow \frac{a+1}{a} = ?$$

$$(\varepsilon)^2 : ra^2 + \varepsilon a = \varepsilon - ra + a^2 \rightarrow \sqrt{a^2 - 12a + 4} = 0$$

$$(a-1)(a-4) = 0$$

$$\Rightarrow a = 1, 4 \Rightarrow a = \frac{r}{\sqrt{5}}, \frac{r}{2}$$

$$\Rightarrow \frac{a+1}{a} = \sqrt{\frac{a}{r}} = \frac{\varepsilon}{r}$$

$$\frac{\sqrt{n+1}}{\sqrt{n-1}} - \frac{\sqrt{n+1}}{r-\sqrt{n-1}} = \frac{n-1}{\sqrt{n-1}} : \sqrt{n+1} (x - \sqrt{n-1} - x - \sqrt{n-1}) = \frac{-2\sqrt{n-1}}{1-n} = \frac{n-1}{\sqrt{n-1}} \rightarrow -2(n-1) = -\sqrt{n-1}$$

$$\Rightarrow -2n+2 = -\sqrt{n-1} + 4n-4 : n^2 - 11n + 12 = 0$$

$$\Rightarrow \Delta = 121 - 48 = 73 \Rightarrow$$

$$\frac{11+\sqrt{73}}{2} \rightarrow \frac{11+\sqrt{73}}{2} \checkmark >$$

$$\frac{11-\sqrt{73}}{2} \rightarrow \frac{11-\sqrt{73}}{2} \checkmark >$$

$$\frac{1}{\sqrt{r-n}+r} - \frac{1}{r-\sqrt{r-n}} = \frac{r-n}{a\sqrt{r-n}} \Rightarrow \frac{1}{t+r} - \frac{1}{r-t} = \frac{t^2}{a t} : \frac{r-t-t-r}{t^2-\varepsilon} = \frac{-2t}{t^2-\varepsilon} = \frac{t^2}{a t}$$

$$\Rightarrow -1 = t^2 - \varepsilon \rightarrow t^2 = -\varepsilon \Rightarrow \text{مقدار مثبت از معادله جواب ندارد!}$$

$$\frac{1}{n^2} + \frac{1}{(1-n)^2} = \frac{17}{9} \quad : \frac{(1-n)^2 + n^2}{n^2(1-n)^2} = \frac{17}{9} \quad : \frac{1-n^2}{n^2(1-n)^2} = \frac{17}{9} \quad \rightarrow t = n^2 - x$$

$$\Rightarrow 17t + 9 = 17 \cdot t^2 : 17t^2 - 17t - 9 = 0 \quad : (t - 1)(17t + 9) = 0 \rightarrow t = -\frac{9}{17}, \frac{1}{17} \Rightarrow \frac{1}{17} \Rightarrow \frac{1}{17}$$

$$\Rightarrow \begin{cases} t = \frac{1}{17} : n^2 - n = \frac{1}{17} \xrightarrow{\Delta} n^2 - n - \frac{1}{17} = 0 \rightarrow S = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \Rightarrow 1 + 1 = 2 \\ t = -\frac{9}{17} : n^2 - n + \frac{9}{17} = 0 \rightarrow \Delta < 0 : S = \emptyset \end{cases}$$

$$\sqrt{n + \sqrt{-n^2 + 4n - 1}} + \sqrt{n^2 + \sqrt{-n^2 + 4n - 1}} = n + 1$$

$$n^2(\varepsilon - n) - 40(\varepsilon - n) \geq 0 \quad \Rightarrow (n - 40)(n^2 - 40) \geq 0$$

$$\begin{cases} n^2 - 40 > 0 \\ (n - 40)(n^2 - 40) \geq 0 \end{cases} \Rightarrow \begin{cases} n > \sqrt{40} \\ n < -\sqrt{40} \text{ or } n > 40 \end{cases}$$

$$\Rightarrow \{ \varepsilon \} \Rightarrow n = 1$$

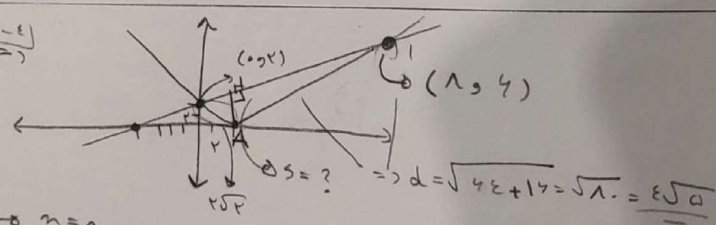
$$\Rightarrow \sqrt{\frac{1}{2}} + \sqrt{\frac{1}{2}} = 1 \Rightarrow \frac{1}{\sqrt{2}} = 1 \Rightarrow \frac{1}{\sqrt{2}}$$

$$1) y = |n + 1| + |n - 1| \Rightarrow AB = ? \rightarrow y_1 = \frac{-x}{-x - 1} \quad \frac{1}{x + 1}$$

$$\begin{cases} n \geq 1 \Rightarrow x(x + 1) = 14 - n : 4n + 1 = 14 - n : 5n = 13 \rightarrow n = \frac{13}{5} \checkmark \\ -x < n < 1 \Rightarrow 9 = 14 - n \rightarrow n = 5 \checkmark \\ n \leq -2 \Rightarrow x(-x - 1) = 14 - n : -4n - 1 = 14 - n : 3n = -15 \rightarrow n = -5 \checkmark \end{cases}$$

$$\Rightarrow d = \sqrt{13 + 1} = \sqrt{14} = 2\sqrt{1}$$

$$y = \sqrt{n^2 - 4n + 4} \Rightarrow y = \frac{1}{x} n + 1 \rightarrow y = \frac{1}{x} n + 1 \Rightarrow n = \frac{1}{x} n + 1$$



$$\Rightarrow n \geq 1 : n - 1 = \frac{1}{x} n + 1 : \frac{1}{x} n = \varepsilon \rightarrow n = \varepsilon, y = 1$$

$$S = \frac{\sqrt{14} \times \sqrt{14}}{x \times x} = \frac{14}{x^2} \Rightarrow \frac{14}{x^2} = \frac{14}{x^2} \Rightarrow \frac{14}{x^2} = \frac{14}{x^2}$$

$$B \quad F \quad t = ?$$

$$t \quad t + 9 = \frac{1}{t} + \frac{1}{t + 9} = \frac{1}{r} \quad : r(r + 9) = t^2 + 9t \quad : t^2 + t(9 - r) - 18 = 0$$

$$(t - 3)(t + 6) = 0 \Rightarrow t = 3 \text{ or } t = -6$$

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