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نام خانوادگی: زهراسادات حسینی - پانزدهم شهریور ۱۳۹۸

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$$\frac{\Delta K + \alpha}{FK} = \frac{1 + \sqrt{5}}{r} \rightarrow \frac{\alpha}{r} + \frac{\alpha}{FK} = \frac{1 + \sqrt{5}}{r} \rightarrow \alpha + \frac{\alpha}{K} = r + r\sqrt{5}$$

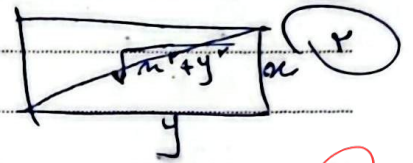
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$$\frac{\alpha}{K} = r\sqrt{5} - r \Rightarrow \frac{S_{\text{اول}}}{S_{\text{دوم}}} = \frac{(FK)(\Delta K + \alpha)}{(FK)(\Delta K)} = 1 + \frac{\alpha}{\Delta K} = 1 + \frac{1}{\alpha} \left(\frac{\alpha}{K} \right)$$

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$$= 1 + \frac{1}{\alpha} (r\sqrt{5} - r) = \frac{\alpha + r\sqrt{5}}{\alpha} - \frac{r}{\alpha} = \frac{r\sqrt{5} + r}{\alpha}$$

$$\frac{\sqrt{\alpha^2 + y^2}}{y} = \frac{1 + \sqrt{5}}{r} \rightarrow \sqrt{\alpha^2 + y^2} = \left(\frac{1 + \sqrt{5}}{r} \right) y$$



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$$\alpha^2 + y^2 = \left(\frac{1 + \sqrt{5}}{r} \right)^2 y^2 \rightarrow \alpha^2 = \left(\frac{r + r\sqrt{5}}{r} \right)^2 y^2 \rightarrow \alpha = \frac{\sqrt{r + r\sqrt{5}}}{r} y$$

$$\frac{\alpha}{y} = \frac{\sqrt{r + r\sqrt{5}}}{r}$$

$$\frac{\sqrt{\alpha^2 + y^2}}{\alpha} = \frac{\sqrt{5} + 1}{r} \rightarrow \frac{\alpha^2 + y^2}{\alpha^2} = \frac{r + r\sqrt{5}}{r^2} \rightarrow \frac{y^2}{\alpha^2} = \frac{1 + \sqrt{5}}{r} \Rightarrow \frac{\alpha}{y} = \frac{\sqrt{5} + 1}{r}$$

$$\sqrt{r\alpha^2 + \varepsilon\alpha} = r - \alpha \rightarrow r\alpha^2 + \varepsilon\alpha = r^2 - 2r\alpha + \alpha^2 \rightarrow r\alpha^2 - 14\alpha + r = 0$$

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$$r\alpha^2 - 14\alpha + r = 0 \Rightarrow (\alpha - 14)(\alpha - r) = 0 \rightarrow \alpha = \frac{r}{v}, r$$

→ ۱۴ → ۲

جایگزینی

جواب را یکبار منتهی می شود → منقح

$$\Rightarrow \alpha = r \rightarrow \sqrt{r(r) + \varepsilon(r)} = r - r(r) \rightarrow \alpha \neq r$$

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$$\alpha = \frac{r}{v} \rightarrow \sqrt{r\left(\frac{r}{\varepsilon v}\right) + \varepsilon\left(\frac{r}{v}\right)} = r - r\left(\frac{r}{v}\right) \rightarrow \sqrt{\frac{r}{\varepsilon v} + \frac{\varepsilon r}{v}} = \frac{1}{v} = \frac{r - r^2}{v} = \frac{1}{v} \checkmark$$

$$\alpha = \frac{r}{v} \Rightarrow \frac{\alpha + 1}{\alpha} = \frac{\frac{r}{v} + v}{\frac{r}{v}} = \varepsilon, \delta$$

$$\frac{(\sqrt{n+1})(r-\sqrt{n-1}) - (\sqrt{n+1})(\sqrt{n-1}+r)}{10-n} = \sqrt{n-1} \quad n \neq \{1, -1\} \quad n \neq 10 \quad (f)$$

$$\rightarrow \cancel{r\sqrt{n+1}} - \sqrt{n^2-1} - \cancel{r\sqrt{n+1}} - \sqrt{n^2-1} = 10\sqrt{n-1} - n\sqrt{n-1} \quad (5)$$

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

$$2\sqrt{n+1} = n-10 \rightarrow \sum n + \sum = n^2 + 100 - 20n \rightarrow n^2 - 20n + 100 = 0$$

$$\left\{ \begin{aligned} n_1 &= \frac{20 \pm \sqrt{400}}{2} = \frac{20 \pm 20}{2} \rightarrow \text{OK} \checkmark \end{aligned} \right.$$

$$\Delta = 20^2 - 4 \times 100 = 192$$

$$\left\{ \begin{aligned} n_2 &= \frac{20 \pm \sqrt{400}}{2} = \frac{20 \pm 20}{2} \rightarrow \text{OK} \checkmark \quad n \neq 10 \end{aligned} \right.$$

نتیجه مثبت بود

$$\sqrt{r-n} \rightarrow n < r \quad / \quad \frac{r-\sqrt{r-n}-\sqrt{r-n}}{r-r+n} = \frac{r-n}{n\sqrt{r-n}} \rightarrow \frac{r-\sqrt{r-n}}{r+n} = \frac{r-n}{n\sqrt{r-n}} \quad (15)$$

$$\rightarrow \sum - n^2 = 10n - 10 \rightarrow n^2 + 10n - 20 = 0 \rightarrow (n+12)(n-2) = 0$$

$\downarrow$ $\downarrow$
 (-12) (2)
 OK OK

نتیجه مثبت ندارد

$$\frac{(1-n)^2 + n^2}{n^2(1-n)^2} = \frac{140}{9} \rightarrow \frac{1-n^2-2n+1}{n^2(n^2-2n+1)} = \frac{140}{9} \rightarrow \frac{2(n^2-n)+1}{(n^2-n)^2} = \frac{140}{9} \quad (9)$$

$$t = n^2 - n \rightarrow \frac{t+1}{t^2} = \frac{140}{9} \rightarrow 140t^2 - 11t - 9 = 0 \rightarrow (14t+3)(10t-3) = 0$$

$\downarrow$ $\downarrow$
 $\frac{3}{14}$ $\frac{3}{10}$

$$n^2 - n = -\frac{3}{14} \rightarrow 14n^2 - 14n + 3 = 0 \rightarrow S=1, n^2 - n = \frac{3}{10} \rightarrow 10n^2 - 10n - 3 = 0$$

$$S_1 = 1+1 = 2$$

$$S=1$$

$$a + 5y = 0 \rightarrow \boxed{ay = -5} \quad / \quad \sqrt{-a^2 + 4a - 1} = -a^2 + 4a - 1 > 0 \rightarrow \frac{r}{-a} + \frac{r}{-a} = \frac{r}{-a} + \frac{r}{-a} \quad (V)$$

$$[r, r]$$

$$\sqrt{-a^2 + 2a^2 + 20a - 100} \rightarrow a = 2 \rightarrow \sqrt{-1 + 14 + 20 - 100} < 0 \rightarrow a \neq 2 \quad (V)$$

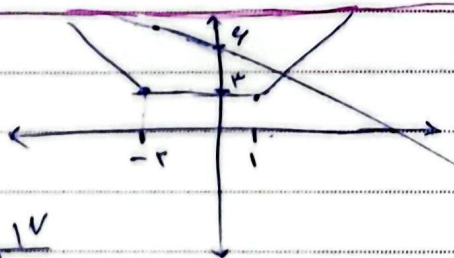
$$a = 3 \rightarrow \sqrt{-27 + 36 + 20 - 100} < 0 \rightarrow a \neq 3$$

$$a = 4 \rightarrow \sqrt{-48 + 48 + 100 - 100} = 0 \quad \checkmark \quad \boxed{a = 4} \rightarrow \sqrt{4 + 0} + \sqrt{14 + 0} = 4 \quad \checkmark$$

$$a = 4 \leftarrow \text{a b} \quad \text{ب a b} =$$

$$|a + 2| + |a - 1| \rightarrow a = 1 \rightarrow y = 2$$

$$\text{b a} \quad \text{b a}$$



$$y = -\frac{a}{r} + \frac{14}{r} \rightarrow \begin{cases} \text{if } a = 0; k = 0 \\ \text{if } a = 1 \end{cases} \rightarrow ra + 1 = -\frac{a}{r} + \frac{14}{r}$$

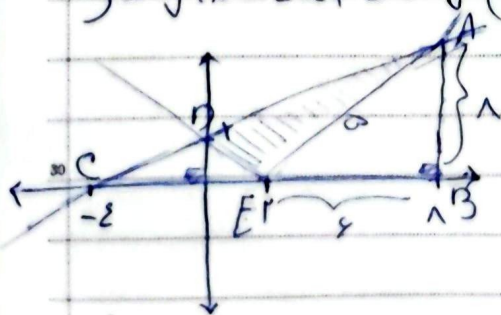
$$4a + 1 = -a + 14 \rightarrow 5a = 13 \rightarrow a = 2 \rightarrow y = 4 + 1 = 5$$

$$ra - 1 = -\frac{a}{r} + \frac{14}{r} \rightarrow -4a - 1 = -a + 14 \rightarrow -3a = 15 \rightarrow a = -5 \rightarrow y = 4 + 1 = 5$$

$$ra + 1 + a + 2 = -\frac{a}{r} + \frac{14}{r} \rightarrow 9 = -a + 14 \rightarrow a = 5 \rightarrow y = 4 + 1 = 5$$

$$A \mid \Delta \quad B \mid \sqrt{r} \rightarrow AB = \sqrt{a^2 r^2 + a^2 r^2} = \sqrt{4r^2 r^2} = r\sqrt{10}$$

$$y = \sqrt{a^2 - 2a + 2} = \sqrt{(a-1)^2} = |a-1|, \quad y = \frac{1}{r}a + 2$$



$$a - 1 = \frac{1}{r}a + 2 \rightarrow a = 1$$

$$S_{DEA} = S_{ABC} - (S_{DEC} + S_{ABE})$$

$$\rightarrow \frac{1 \times 10}{r} - \left(\frac{1 \times 4}{r} + \frac{1 \times 4}{r} \right) = \frac{4}{r} - \frac{4}{r} = 0$$

$$|m-r| = \frac{1}{r}n+r$$

(4)

$$A(1, r) \quad B(r, 1) \quad C(1, 4)$$

$$AB = r\sqrt{r} \quad BC = 4\sqrt{r} \quad S = \frac{r\sqrt{r} \times 4\sqrt{r}}{r} = 1r$$

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جواب: $\frac{1}{n} + \frac{1}{n+9} = \frac{1}{r_0}$

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$$\frac{1}{n} + \frac{1}{n+9} = \frac{1}{r_0} \rightarrow \frac{r_0 + 9}{n^2 + 9n} = \frac{1}{r_0}$$

$$80n + 110 = n^2 + 9n \rightarrow n^2 - 71n - 110 = 0 \rightarrow (n+2)(n-110) = 0$$

$$\begin{matrix} \text{---} 2 \text{---} & \text{---} 110 \text{---} \\ \text{---} 2 \text{---} & \text{---} 110 \text{---} \end{matrix}$$

... 110, ...