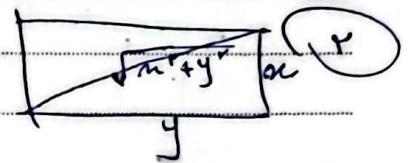


$$\frac{\Delta K + \kappa}{FK} = \frac{1 + \sqrt{5}}{r} \rightarrow \frac{\Delta}{r} + \frac{\kappa}{FK} = \frac{1 + \sqrt{5}}{r} \xrightarrow{\times r} \Delta + \frac{\kappa}{K} = 1 + \sqrt{5} \quad (1)$$

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

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

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



$$\xrightarrow{\text{مربع}} \kappa^2 + y^2 = \left(\frac{1 + \sqrt{5}}{r} \right)^2 y^2 \rightarrow \kappa^2 = \left(\frac{1 + \sqrt{5}}{r} \right)^2 y^2 - y^2 \rightarrow \kappa = \frac{\sqrt{1 + \sqrt{5}}}{r} y$$

$$\frac{\kappa}{y} = \frac{\sqrt{1 + \sqrt{5}}}{r}$$

$$\sqrt{2\alpha^2 + 3\alpha} = 1 - 2\alpha \rightarrow 2\alpha^2 + 3\alpha = 1 - 4\alpha + 4\alpha^2 - 12\alpha + 4 \rightarrow 2\alpha^2 - 14\alpha + 4 = 0 \quad (2)$$

$$\xrightarrow{\text{مربع}} 2\alpha^2 - 14\alpha + 4 = 0 \rightarrow (\alpha - 14)(\alpha - 2) = 0 \rightarrow \alpha = \frac{r}{v}, 2$$

$$\hookrightarrow (14) \quad \hookrightarrow (2)$$

جواب را یکبار منتهی می شود $\rightarrow$ منقح

چون $\alpha = 2 \rightarrow \sqrt{2(4) + 3(2)} = 1 - 2(2) \rightarrow 4 \neq -3 \rightarrow \alpha \neq 2$

$$\alpha = \frac{r}{v} \rightarrow \sqrt{2\left(\frac{r}{v}\right)^2 + 3\left(\frac{r}{v}\right)} = 1 - 2\left(\frac{r}{v}\right) \rightarrow \sqrt{\frac{2}{v^2} + \frac{3r}{v}} = \frac{1}{v} = \frac{1 - 2r}{v} = \frac{1}{v} \checkmark$$

$$\alpha = \frac{r}{v} \Rightarrow \frac{\alpha + 1}{\alpha} = \frac{\frac{r}{v} + 1}{\frac{r}{v}} = 2.5$$

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

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

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

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

$$\left\{ \begin{aligned} n_1 &= \frac{20 \pm \sqrt{400}}{2} = \frac{20 \pm 20}{2} \rightarrow \bar{0} \bar{0} \checkmark \end{aligned} \right.$$

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

$$\left\{ \begin{aligned} n_2 &= \frac{20 \pm \sqrt{400}}{2} = \frac{20 \pm 20}{2} \rightarrow \bar{0} \bar{0} \checkmark \quad n \neq 10 \end{aligned} \right.$$

نتیجه مثبت بود

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

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

$$\downarrow \quad \downarrow$$

$\bar{0} \bar{0} \checkmark$ $\bar{0} \bar{0} \checkmark$

نتیجه مثبت ندارد

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

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

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

$$S_1 = 1+1 = 2$$

$$S=1$$

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

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

$$\begin{array}{ccc} \text{و } \text{و } \text{و } & \leftarrow & \text{و } \text{و } \text{و } \\ \text{و } \text{و } \text{و } & & \text{و } \text{و } \text{و } \end{array}$$

الجزء 1