

$$\frac{n}{y} = \frac{0}{r} \rightarrow n = \frac{0}{r} y$$

$$\frac{\alpha + \beta}{y} = \frac{1 + \sqrt{5}}{r} \rightarrow \alpha + \beta = \frac{1 + \sqrt{5}}{r} y$$

$$\frac{S \text{ (مستطیل)}}{S \text{ (مربع)}} = \frac{\alpha y}{\alpha y} = \frac{\frac{1 + \sqrt{5}}{r} y^2}{\frac{1}{r} y^2} = \frac{r + r\sqrt{5}}{r}$$

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

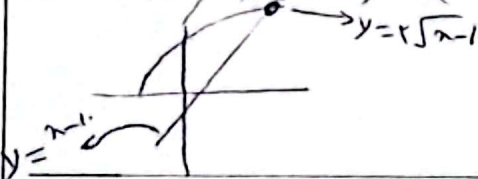
$$\xrightarrow{(\cdot)^2} \frac{r + r\sqrt{5}}{r} = n^2 + r^2 \rightarrow y^2 = \frac{1 + \sqrt{5}}{r} n^2 \rightarrow \frac{n^2}{y^2} = \frac{n^2}{\frac{1 + \sqrt{5}}{r} n^2} = \frac{\sqrt{5} - 1}{r}$$

$$r\alpha + \sqrt{r\alpha^2 + r\alpha} = r \rightarrow \sqrt{r\alpha(a+r)} = r - r\alpha \xrightarrow{(\cdot)^2} r\alpha^2 + r\alpha = r^2 + r\alpha^2 - 2r\alpha$$

$$\sim r\alpha^2 - 2r\alpha + r = 0 \rightarrow a = \frac{r}{2} \pm \sqrt{\frac{r^2}{4} - r} \rightarrow \frac{a+1}{a} = \frac{r}{r} \pm \sqrt{\frac{r}{r}} \rightarrow \frac{a+1}{a} = \frac{r}{r} \pm \sqrt{\frac{r}{r}}$$

$$\frac{\sqrt{n+1}}{r + \sqrt{n-1}} - \frac{\sqrt{n+1}}{r - \sqrt{n-1}} = \frac{r\sqrt{n+1} - r\sqrt{n-1} - r\sqrt{n+1}}{1 - n} \sim \frac{-2r\sqrt{n+1}}{1 - n} = \frac{n-1}{\sqrt{n-1}}$$

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



$$\frac{1}{r + \sqrt{r-n}} - \frac{1}{r - \sqrt{r-n}} \Rightarrow \frac{-2\sqrt{r-n}}{r+n} = \frac{r-n}{\omega\sqrt{r-n}}$$

$$\rightarrow (r-n) = r-n^2 \rightarrow n^2 - 1 \cdot n - r = 0 \rightarrow (n+1)(n-2)$$

محل تقاطع

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

$$\frac{1}{n(n-1)} = t$$

$$\rightarrow t^r - r t = \frac{14}{9} \xrightarrow{+1} t^r - r t + 1 = \frac{149}{9} \rightarrow (t-1)^r = \frac{149}{9} \rightarrow t-1 = \frac{\pm 13}{r}$$

$$t = \frac{14}{r} \cdot \frac{1}{n(n-1)} \rightarrow \frac{1}{n(n-1)} = \frac{14}{r} \rightarrow -n^r + n = \frac{r}{14} \rightarrow S_1 = 1$$

$$\rightarrow S_1 + S_r = 1$$

$$n+r \geq \dots \rightarrow -n^r + 4n - 1 \geq \dots \rightarrow n^r - 4n + 1 \leq \dots \rightarrow (n-1)(n-3) \leq \dots$$

$$\rightarrow r \leq n \leq r \rightarrow -n^r + r n^r + r \Delta n - 1 \rightarrow -n^r (n-r) + r \Delta (n-1) = 0$$

$$(n-r)(-n^r + r \Delta) \geq \dots \rightarrow \frac{-\Delta r}{r} \frac{\Delta}{n} \rightarrow \left(-\infty, \Delta \right] \cup \left[r, \Delta \right] \text{ (u)}$$

$$1 \cap r \cap r \rightarrow r \sim \dots$$

$$y = |n+r| + |n-1|, \quad y \neq n-1 \rightarrow y = \frac{14-n}{r}$$

$$\text{(A)} \frac{14-n}{r} = r n + 1 \rightarrow n = r \sim y = \Delta$$

$$\text{(B)} \frac{14-n}{r} = -r n + 1 \rightarrow n = -r \sim y = v$$

$$\rightarrow \left((r+r)^r + (\Delta-v)^r = AB \right)$$

$$= \sqrt{r} = r \sqrt{1}$$

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

$$\frac{n+r}{r} = |n-r| \sim \frac{n}{r} + r = n-r \rightarrow n = 1 \sim y = 4$$

$$\frac{n}{r} + r = r - n \rightarrow n = 0 \sim y = r$$

$$S = 4 \times 4 \times \frac{1}{2} = 16$$

$$B \sim n, \quad F \sim n+9 \rightarrow \frac{1}{n} + \frac{1}{n+9} = \frac{1}{r}$$

$$\frac{r n + 9}{n^r + 9 n} = \frac{1}{r} \rightarrow r \cdot n + 9 = n^r + 9 n \rightarrow n^r - r n - 1 = 0$$

$$(n-4)(n+2) = 0 \rightarrow n = 4 \text{ (u)}$$