

تلاش بزرگوار

با کمال احترام و تشکر

۱۷/۵

نام و نام خانوادگی: عتیق میری

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

$$\frac{n+\beta}{y} = \frac{1+\sqrt{\omega}}{r} \rightarrow n+\beta = \frac{1+\sqrt{\omega}}{r} y$$

$$\frac{S \square \text{وی}}{S \square \text{وی}} = \frac{n+y}{n+y} = \frac{1+\sqrt{\omega}}{r} y = \frac{r+\sqrt{\omega}}{r}$$

$$y \sqrt{n^2+y^2} = \frac{1+\sqrt{\omega}}{r} n \rightarrow \frac{1+\sqrt{\omega}}{r} n = \sqrt{n^2+y^2}$$

$$\frac{1}{r} \rightarrow \frac{r+\sqrt{\omega}}{r} = n^2+y^2 \rightarrow y^2 = \frac{1+\sqrt{\omega}}{r} n^2 \rightarrow \frac{n^2}{y^2} = \frac{n^2}{\frac{1+\sqrt{\omega}}{r} n^2} = \frac{\sqrt{\omega}-1}{r}$$

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

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

$$r - r a \rightarrow a \leq \frac{r}{r}$$

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

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

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



$$\begin{aligned} & \rightarrow r\sqrt{n-1} = n-1 \\ & \rightarrow r^2(n-1) = (n-1)^2 \\ & \rightarrow r^2 = n-1 \end{aligned}$$

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

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

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

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

$$t = \frac{14}{r} \xrightarrow{+1} \frac{1}{n(n-1)} = \frac{14}{r} \rightarrow -n^r + n = \frac{r}{14} \rightarrow S_1 = 1 \quad \left\{ \begin{array}{l} S_1 + S_r \\ = r \end{array} \right.$$

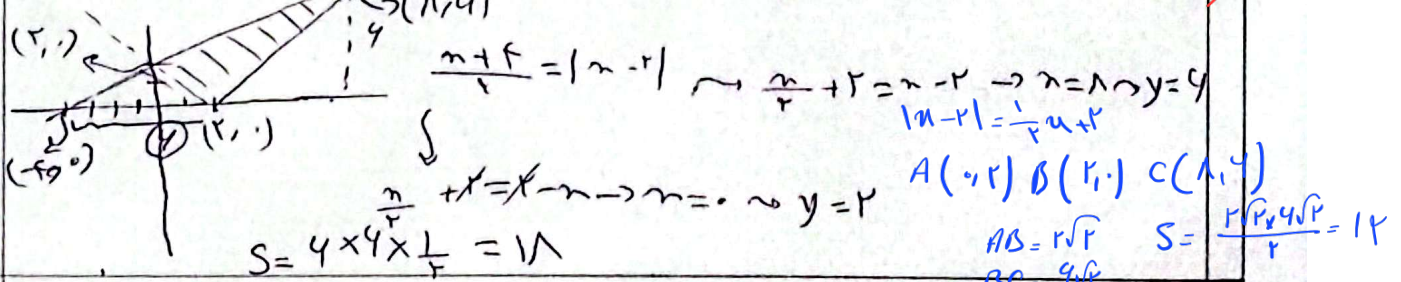
$$n+r \geq \dots \rightarrow -n^r + 4n - 1 \geq \dots \rightarrow n^r - 4n + 1 \leq \dots \rightarrow (n-2)(n-3) \leq \dots$$

$$1 \cap 2 \cap 3 \rightarrow \dots \sim \dots$$

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

$$\text{(A)} \frac{14-n}{r} = rn+1 \rightarrow n=r \sim y=2 \quad \left\{ \begin{array}{l} \rightarrow (r+r)^r + (2-r)^r = AB \\ = \sqrt{r} = r\sqrt{1} \end{array} \right.$$

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



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

$$\frac{rn+a}{n^r+an} = \frac{1}{r} \rightarrow r \cdot n+a = n^r+an \rightarrow n^r-rn-a=0$$

$$(n-4)(n+2) = \dots \rightarrow n = \dots$$