

دستار منظر رانیف ۱۸

$$\frac{\sqrt{n^2 + y^2}}{n} \approx \frac{1 + \sqrt{5}}{2} \rightarrow \frac{n^2 + y^2}{n^2} \approx \frac{(1 + \sqrt{5})^2}{4} \xrightarrow[\text{مساواة}]{\text{تقريب}} \frac{y^2}{n^2} \approx \frac{(1 + \sqrt{5})^2 - 4}{4}$$

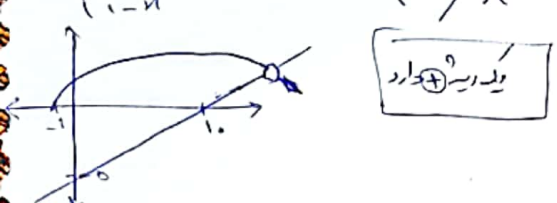
$$r_a + \sqrt{r_a^2 + c_a} = r_a + \frac{a+1}{n} = ?$$

$$\begin{aligned} \sqrt{a^2 + \epsilon a} &\approx \sqrt{a^2} + \frac{\epsilon a}{2\sqrt{a^2}} = a + \frac{\epsilon}{2} \\ \Rightarrow (a + \frac{\epsilon}{2})^2 &\approx a^2 + \epsilon a + \frac{\epsilon^2}{4} \approx a^2 + \epsilon a \end{aligned}$$

$$\frac{a_2 \frac{F}{V} z r}{a_2 \frac{r}{V}} \rightarrow x \dot{e} \quad \frac{a+1}{a} z \frac{\frac{x}{V} + 1}{\frac{r}{V}} z \frac{\frac{q}{V}}{\frac{r}{V}} z \left[\frac{q}{P} \right]$$

$$\frac{\sqrt{n+1} (x - \sqrt{n-1}) - \sqrt{n+1} (\sqrt{n-1} + x)}{9 - (n-1)} = \frac{(\sqrt{n-1})^r}{\frac{n-1}{\sqrt{n-1}}} \rightarrow \frac{\sqrt{n+1} - \sqrt{n^2-1} - \sqrt{n^2-1} - x\sqrt{n+1}}{10-n} = \sqrt{n-1}$$

$$\frac{-r\sqrt{n+1}}{1-n} = \sqrt{n+1} \rightarrow -r(\sqrt{n+1})^2(1-n)\sqrt{n+1} \rightarrow -r\sqrt{n+1}^2(1-n) \rightarrow \sqrt{n+1} = \frac{n}{r} - 0 \quad (5)$$



$$\frac{x\sqrt{x-n} - \sqrt{x-n} - x}{x-x+n} = \frac{(\sqrt{x-n})^2}{x-x+n} = \frac{\sqrt{x-n}}{n}$$

$\hookrightarrow n \neq x \rightarrow \sqrt{x-n} \neq 0$

$$-1 \leq \sqrt{x-n} \leq \sqrt{x-n} (x+n) \rightarrow -1 \leq x+n$$

$$\rightarrow x \geq -1$$

جواب: n سے بڑا

$$-1 \pm \sqrt{1-x} \approx \sqrt{1-x} (1+x) \rightarrow -1 \pm \sqrt{1-x} \approx 1+x$$

جواب مسئلہ ندارد

$$\left(\frac{1}{n} + \frac{1}{1-n}\right)^r - r \left(\frac{1}{n(n+1)}\right) \geq \frac{14}{9} \rightarrow \left(\frac{1}{n(1-n)}\right)^r - r \left(\frac{1}{n(1-n)}\right) \geq \frac{14}{9} \xrightarrow{\frac{1}{n(n+1)} \text{ et } \frac{1}{n(n-1)}} f^r - r f \geq \frac{14}{9}$$

$$\frac{f^r - r f + 1 \geq \frac{14}{9}}{(f-1)^r} \Rightarrow f-1 \geq \frac{14}{1^r} \rightarrow f \geq \frac{14}{1^r}$$

$$\frac{f-1 \geq \frac{14}{1^r}}{(f-1)^r} \rightarrow f-1 \geq \frac{14}{1^r} \rightarrow f \geq \frac{14}{1^r}$$

$$s_1 + s_r \geq r$$

$$\frac{1}{n(n)} \geq \frac{10}{1^r} \rightarrow -n^r + n + \frac{1}{1^r} \geq 0 \quad s_r \geq 1$$

$$-n^r + 4n - n \rightarrow -n^r + 4n - 1 \geq 0 \rightarrow n^r - 4n + 1 \leq 0 \rightarrow (n-2) / (n-5) \leq 0 \quad \begin{array}{c|c|c} n & r & f \\ \hline + & + & + \end{array} \quad [r, 5]$$

$$-n^r + 6n^r + 40n - 10 \rightarrow -n^r + 6n^r + 40n - 10 \geq 0 \Rightarrow n^r - 6n^r - 40n + 10 \leq 0 \rightarrow (n^r - 40n) - (6n^r - 10) \leq 0$$

$$n(n^r - 40) - r(n^r - 40) \leq 0 \rightarrow (n-40)(n+0)(n-5) \leq 0 \quad \begin{array}{c|c|c} n & - & + \\ \hline - & + & - \end{array}$$

$$(-\infty, -40] \cup [5, 40] \quad \textcircled{I} \cap \textcircled{II} \Rightarrow n \in \mathbb{R} \rightarrow \sqrt{5 \pm \sqrt{4 \pm 4 \pm 1 \pm 1 \pm 1}} + \sqrt{14 \pm \sqrt{14 \pm 14 \pm 14 \pm 14 \pm 14}}$$

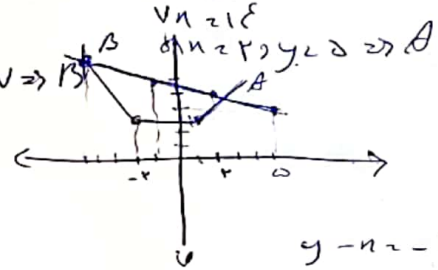
$$\begin{array}{c|c|c} -r & 1 & \\ \hline n-r-n+1 & n+r-n+1 & n+r-n-1 \\ -r-n-1 & r & r-n+1 \end{array}$$

$$\rightarrow r \geq -n + \frac{14}{1^r} \rightarrow n \geq 14 \times \frac{1}{1^r}$$

$$\begin{cases} y+r \geq -1 \\ r y+n \geq 14 \end{cases}$$

$$-2n+r, \quad n < -r, y < 14 \Rightarrow B$$

$$\begin{cases} y-r \geq +1 \\ r y+n \geq 14 \end{cases}$$



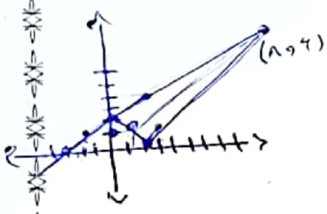
$$AB \geq \sqrt{\Delta n^2 + \Delta y^2} \geq \sqrt{r^2 + 4} \geq \sqrt{4} \geq 2 \quad \boxed{2}$$

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

$$\sqrt{(n-r)^2 + |n-r|} \rightarrow \frac{r}{-n+r} \mid \frac{r}{n-r}$$

$$\begin{array}{l} y+n \geq r \\ -y + \frac{n}{r} \geq -r \\ \cdot \frac{r}{r} \wedge \geq 0 \rightarrow n \geq 0, y \geq r \end{array}$$

$$\begin{array}{l} y-n \geq -r \\ -y + \frac{n}{r} \geq -r \\ \cdot \frac{1}{r} \wedge \geq 0 \end{array}$$



$$y \geq -n \quad \frac{1}{r} \wedge \geq 0 \quad \frac{1}{r} \wedge \geq 0$$

$$\frac{|r+n-r|}{\sqrt{r}} \geq \frac{r\sqrt{r}}{r} \geq r\sqrt{r}$$

$$s_2 \geq \frac{r\sqrt{r} + 4\sqrt{r}}{r} \geq \boxed{14}$$

$$\frac{1}{n} + \frac{1}{n+9} \geq \frac{1}{r}, \quad r_0(n+9) + r_0 n \geq n(n+9)$$

$$r_0 n + 18 + r_0 n \geq n^r + 9n$$

$$n^r - 18n - 18 \geq 0$$

$$(n-4)(n+5) \geq 0$$

$$\boxed{n \geq 4} \quad n \geq 0 \times \frac{1}{r}$$