

$$\frac{1}{x-1} = x-1 \Rightarrow n^2 n^2 - 1 \leq 1 \Rightarrow n^2 \leq 2 \Rightarrow \boxed{2} \checkmark$$

ارید

$$\frac{1}{1-n} \leq n-1 \Rightarrow n-1-n^2+n \leq 1 \Rightarrow n^2-n+2 \leq 1 \Rightarrow \Delta = -7 < 0$$

$$\frac{n-1}{n} < 2 \Rightarrow n-1 < 2n \Rightarrow n > -1$$

$$\frac{n-2}{n+1} > 1 \Rightarrow n-2 > n+1 \Rightarrow n > -3$$

$$\frac{n-1}{n} > 2 \Rightarrow n-1 > 2n \Rightarrow n < -1$$

$$\frac{n-2}{n+1} < -1 \Rightarrow n-2 < -n-1 \Rightarrow n < -\frac{1}{2}$$

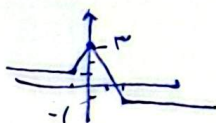
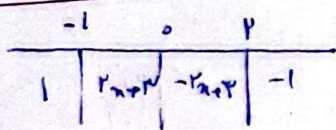
$$-n^2 > n+1 \Rightarrow n > n^2+n+1 \Rightarrow X$$

$$\textcircled{1}, \textcircled{2} \Rightarrow \begin{cases} a-B \leq r \\ a+B \leq r \end{cases} \Rightarrow \begin{cases} a \leq \frac{r}{2} \end{cases}$$

$$n^2 < n+1 \Rightarrow n^2-n-1 < 0 \Rightarrow \frac{-1 \pm \sqrt{5}}{2} \Rightarrow (n-\frac{-1+\sqrt{5}}{2})(n-\frac{-1-\sqrt{5}}{2}) < 0$$

$$\textcircled{1} \Rightarrow n^2-n-1 < 0 \Rightarrow \begin{cases} n < \frac{-1+\sqrt{5}}{2} \\ n > \frac{-1-\sqrt{5}}{2} \end{cases}$$

$$|x-a| < b \Rightarrow -b < x-a < b \Rightarrow a-b < x < a+b$$



$$n-1 \leq \frac{r}{2}$$

$$0 \leq \frac{1}{2}n-1 \Rightarrow \frac{1}{2}n+1 \leq \frac{1}{2}n-1 \Rightarrow n \leq -2 \Rightarrow n = -2$$



$$\frac{1}{1-n} \leq \frac{1}{n-1} \Rightarrow \frac{1-n}{1-n} \leq \frac{1-n}{n-1} \Rightarrow 1 \leq \frac{1-n}{n-1}$$

$$-1 \leq |1-n| - |n+1| \leq 1$$

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$$\Rightarrow [1-|n-1| - |n+1|] \leq \{-1, -2, \dots, 1, 0\}$$

$$\frac{1}{n} - \frac{1}{n+1} < 1 \Rightarrow \frac{1}{n(n+1)} < 1 \Rightarrow 1 < n(n+1) \Rightarrow R_F \subset (1, 2)$$

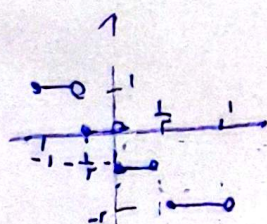
$$\Rightarrow R_F \subset \{2, 3, 4, \dots, 10\}$$

$$-1 < n < \frac{1}{2} \Rightarrow 1$$

$$-\frac{1}{2} \leq n < 0 \Rightarrow 0$$

$$0 \leq n < \frac{1}{2} \Rightarrow 1$$

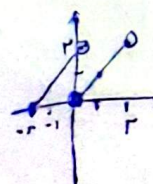
$$\frac{1}{2} \leq n < 1 \Rightarrow 2$$



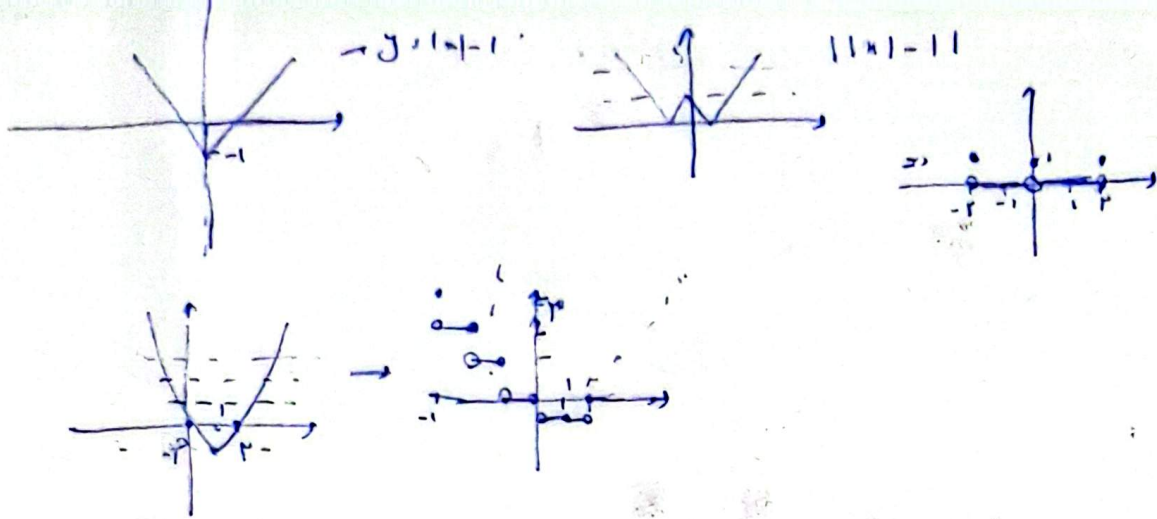
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$$-2 \leq n < 1 \Rightarrow n, r$$

$$0 \leq n < 2 \Rightarrow n$$



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(1) انت

(2)

(3)

(4)

$$\begin{aligned}
 & b \leq y, f \quad \text{و} \quad a \leq x, f \Rightarrow a \leq 1, r \quad b \leq 1, f \\
 & m \leq r + h, f \rightarrow m + h, f \quad \text{و} \quad h \leq r \\
 & h + y, f - m \leq f, f \rightarrow h - m \leq r \quad m = 1 \\
 & [a] \geq m \Rightarrow a \leq m + r \rightarrow a \leq 1, r \\
 & [b] \leq h \Rightarrow b \leq h + y, f \rightarrow b \leq 1, f
 \end{aligned}$$

$$\sqrt{a + b \leq \sqrt{f, f}}$$

$$1 - \sqrt{2} \leq 1 - y, f \leq y, f \rightarrow -1 < 1 - \sqrt{2} < 0 < 1 - \sqrt{2} < 1$$

عدد کسره خزان برسد
بیت ارقام است

$$\Rightarrow (1 + \sqrt{2})^4 + (1 - \sqrt{2})^4 = 191 \quad \text{و} \quad (1 + \sqrt{2})^6 = 191 - \text{عدد کسره}$$

$$\Rightarrow 191 - 1 < (1 + \sqrt{2})^6 < 191 - 0 = 191 < (1 + \sqrt{2})^6 < 191 \Rightarrow [1 + \sqrt{2}]^6 = 191$$