

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

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

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

$$\frac{n-2}{n+1} > 1 \Rightarrow n-2 > n+1 \Rightarrow -2 > 1 \Rightarrow \text{no solution}$$

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

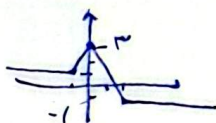
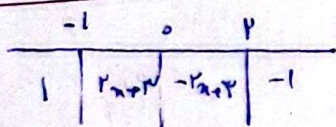
$$\frac{n-2}{n+1} < -1 \Rightarrow n-2 < -n-1 \Rightarrow 2n < 1 \Rightarrow n < \frac{1}{2}$$

$$-n^2 > n+1 \Rightarrow n > n^2+n+1 \Rightarrow \text{no solution}$$

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

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

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



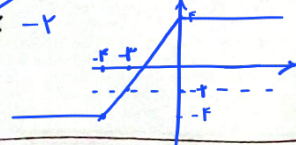
$$n-1 \leq \sqrt{r}$$

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$$0 \leq \frac{1}{n} \leq \frac{1}{n-1} \Rightarrow \frac{1}{n} \leq \frac{1}{n-1} \Rightarrow n \leq n-1 \Rightarrow \text{no solution}$$



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



$$\frac{1}{1-n} \leq \frac{1}{n-1} \Rightarrow 1-n \geq n-1 \Rightarrow -n \geq n \Rightarrow n \leq 0$$

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

$$\Rightarrow [1-n-1, 1-n+1] \subseteq [-1, 1]$$

$$\frac{1}{n} - \frac{1}{n+1} \leq 1 \Rightarrow \frac{1}{n(n+1)} \leq 1 \Rightarrow n(n+1) \geq 1$$

$$\Rightarrow R_F = \{ \pm \omega, \pm f, \pm p, \pm r, \pm 1, 0 \}$$

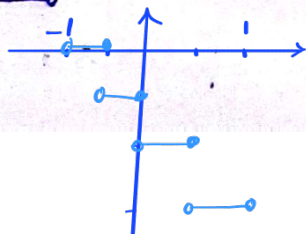
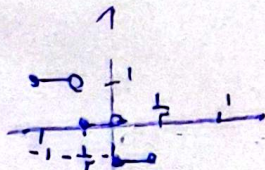
$$-1 < n < \frac{1}{2} \Rightarrow 1$$

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

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

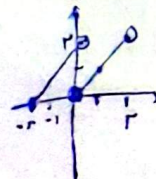
$$\frac{1}{2} \leq n < 1 \Rightarrow -2$$

$$\begin{aligned} n < \frac{1}{2} &\rightarrow -1 \\ \frac{1}{2} \leq n < 1 &\rightarrow -2 \\ \frac{1}{2} \leq n < 1 &\rightarrow -1 \\ -1 < n < \frac{1}{2} &\rightarrow 1 \end{aligned}$$

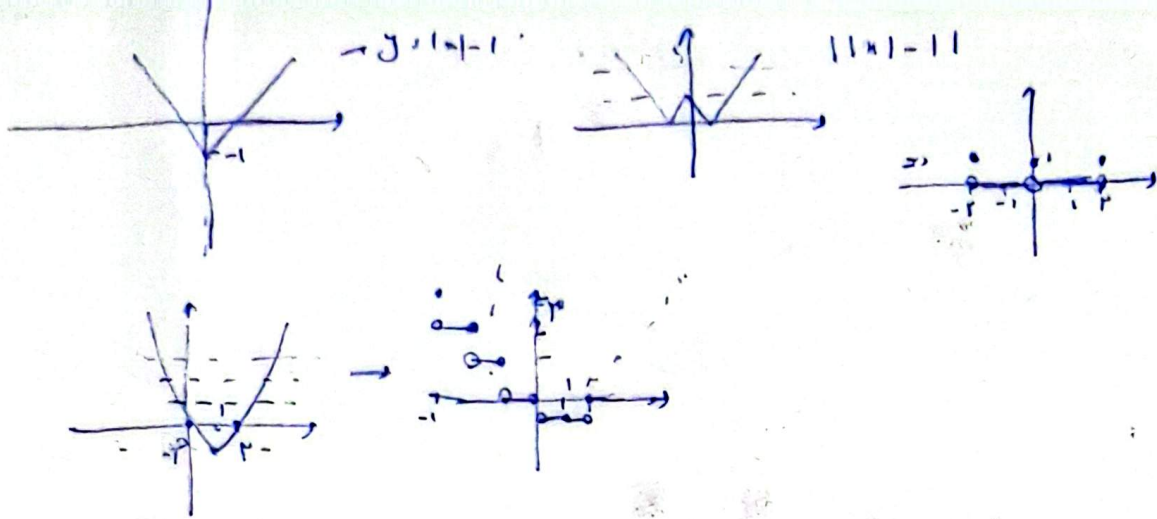


$$-2 \leq n < 1 \Rightarrow n, r$$

$$0 \leq n < 1 \Rightarrow n$$



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$b \leq y, f$ و $a \leq x, f \Rightarrow a \leq b, r$ $b \leq r, f$ (1)
 $m \leq r + h, f \rightarrow m + h \leq f \rightarrow h \leq r$
 $n + y, f - m \leq f \rightarrow h - m \leq r \rightarrow m = 1$
 $[a] \leq m \Rightarrow a \leq m + y, f \rightarrow a \leq b, r$
 $[b] \leq h \Rightarrow b \leq h + y, f \rightarrow b \leq r, f$

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

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$1 - \sqrt{2} \leq 1 - y, f \leq y, f \rightarrow -1 < 1 - \sqrt{2} < 0 < 1 - \sqrt{2} < 1$
 عدد کسره خزان برسد
 بیت ارقام است

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

$\Rightarrow 191 - 1 < (1 + \sqrt{2})^4 < 191 - 0 = 191 < (1 + \sqrt{2})^4 < 192 \Rightarrow [1 + \sqrt{2}]^4 = 191$