

عرفان حقیقی یازدهم

$$n \geq 1 \Rightarrow \frac{1}{n-1} = n-1 \Rightarrow \frac{1-n^2+n-1}{n-1} =$$

$$\frac{-n^2+n}{n-1} = \Rightarrow n < \boxed{2} \quad \text{نقص}$$

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

پس جواب $n-1$

$$\text{الف)} \quad -2 < \frac{r_{n-1}}{n} < 2 \Rightarrow \frac{r_{n-1}-2n}{n} < 0 \Rightarrow \frac{-1}{n} < 0$$

n .

$$\frac{r_{n-1}+2n}{n} \Rightarrow \frac{r_{n-1}}{n} > 0 \Rightarrow n \geq \frac{1}{2} \cup n < 0$$

$$1 \cap 2 \Rightarrow n \geq \frac{1}{2}$$

$$\text{ب)} \quad \frac{n-2}{r_{n+1}} \geq 1 \Rightarrow \frac{n-2-r_{n+1}}{r_{n+1}} \Rightarrow \frac{-n-2}{r_{n+1}} > 0$$

$$\frac{-2-\frac{1}{r}}{-1+\frac{1}{r}} \Rightarrow -2 < n < -\frac{1}{r} \quad \text{نقص}$$

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$$\frac{n-r}{r_{n+1}} (-1) \Rightarrow \frac{n-r+r_{n+1}}{r_{n+1}} (-1)$$

$$\frac{r_n - 1}{r_{n+1}} < \Rightarrow \frac{-\frac{1}{r} - \frac{1}{r}}{+1 - +1} \Rightarrow -\frac{1}{r} < \frac{1}{r} \quad (r)$$

$$1 \wedge r \Rightarrow \emptyset$$

$$n+4 > n^r \Rightarrow -n^r + n+4 > 0 \Rightarrow \frac{-r}{-1+1} \quad (r)$$

$$-r < n < r$$

$$n+4 < -n^r \Rightarrow n^r + n+4 < 0$$

$$-B < n-a < B \Rightarrow -B+a < n < B+a$$

$$\begin{cases} -B+a = -r \\ B+a = r \end{cases} \Rightarrow \boxed{a = \frac{1}{r}} \quad B = \frac{a}{r}$$

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$$\begin{array}{c} \begin{array}{cccc} & -1 & & \mu \\ \hline -n-1+\mu-n+\mu & n+1+\mu-n+\mu & n+1-\mu-n+\mu & n+1-\mu+n-\mu \\ \hline 1 & \mu+n & -\mu+n & -1 \end{array} \end{array}$$

$$\max = \mu \Rightarrow \max + \min = \mu$$

$$\min = -1$$

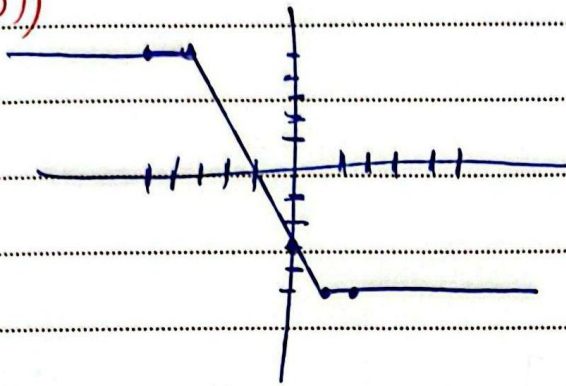
(د) بعد از انتقال $\left| \frac{n+r}{r} \right| - 1$

$$\left| \frac{n+r}{r} \right| - 1 = \left| \frac{1}{r} n \right| - r \Rightarrow \left| \frac{n+r}{r} \right| - \left| \frac{1}{r} n \right| = -1$$

$$\frac{-r}{-r} = \frac{-1}{-1} \cdot n + r = -1 \quad ; \quad r = -1 \quad \text{غوق}$$

$$n = -r$$

و



$-\omega$	$-\mu$	1	μ
ω	ω	$-\omega$	$-\omega$

بِأَنزِلِ اسْتَنْ بِرَأْفَتٍ فَقَطْ عِوَدَهَا
صَحِيحٌ فَبِزِيَارَةِ سُرُورِ

$$R_f = [-\omega_g - r_g - r_g \cdot r_g - l_g \cdot g / g \cdot r_g \cdot r_g \cdot \omega_g]$$

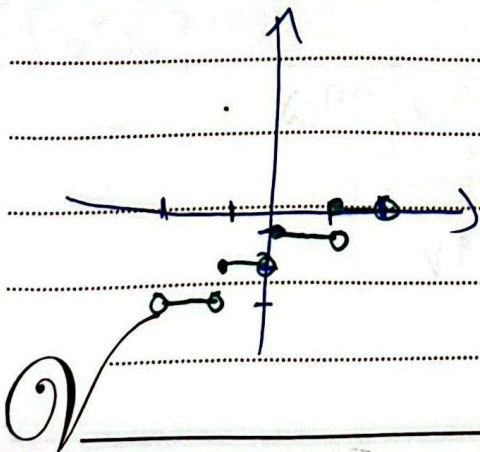
$$\therefore f(n) = \frac{1}{n} - \left[1 + \frac{1}{n} \right] \Rightarrow \frac{1}{n} - \underbrace{\left[\frac{1}{n} \right]}_{[0]} = 1$$

$$R(f)' = [-1, 9]$$

$$[-r_m]_1 \Rightarrow -1(n+1) \stackrel{n-r}{=} -r(-r_m(r)) \quad (\checkmark)$$

$$\textcircled{1} \quad -P(-P_n(-1) \Rightarrow) \vee = -P \quad \textcircled{2} \Rightarrow -1(-P_n(\cdot \Rightarrow) \vee = -P$$

(N) $\cdot \lim_{n \rightarrow \infty} p_n < 1 \Rightarrow y = -1$ (P) $\cdot \lim_{n \rightarrow \infty} p_n < 1 \Rightarrow y =$



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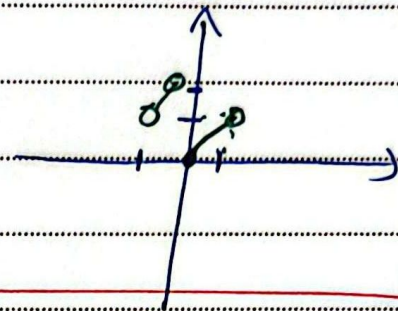
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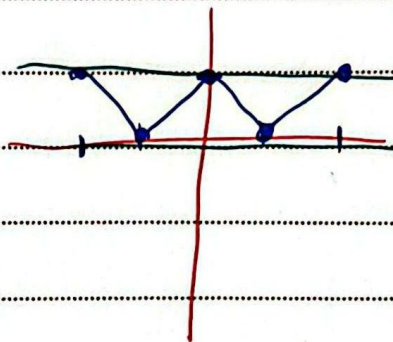
$$\rightarrow n - r \left[\frac{n}{r} \right] \Rightarrow -r < n < r \Rightarrow -1 < \frac{n}{r} < 1 \quad \text{①}$$

$$-1 < \frac{n}{r} < 1 \Rightarrow y = n + r$$

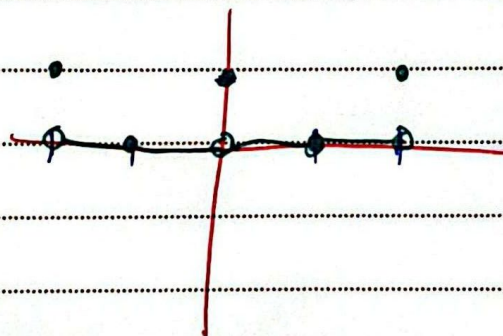
$$0 < \frac{n}{r} < 1 \Rightarrow y = n$$



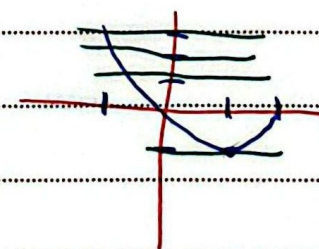
الف) $| |n| - 1 | \Rightarrow$



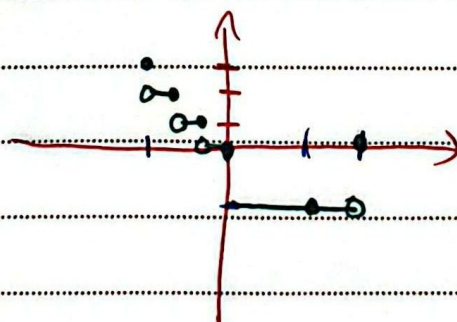
$$\left[| |n| - 1 | \right] \Rightarrow$$



$$\rightarrow n^r - r_n \quad n \in [-1, 2] \Rightarrow$$



$$\left[n^r - r_n \right] \Rightarrow$$



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(9)

$$a = [a] + \text{جزء صحیح } a$$

$$b = [b] + \text{جزء صحیح } b$$

$$a + [b] = 1,2 \Rightarrow [a] + [b] + \text{جزء صحیح } a = 1,2$$

$$[a] + [b] = 1$$

$$[b] - [a] = 2 \Rightarrow [a] = 1 \quad [b] = 3$$

$$b = 3 + 0,2 = 3,2$$

$$\Rightarrow a + b = 1,2 + 3,2 = 4,4$$

$$a = 1 + 0,2 = 1,2$$

$$(1-2)^n < 1 \Rightarrow \text{عدد صحیح } n \Rightarrow \dots \omega$$

(10)

$$(1+\sqrt{2})^n = 198 - (1-\sqrt{2})^n$$

$$(1+\sqrt{2})^n = 198 - \dots \omega = 197,99\omega$$

$$[(1+\sqrt{2})^n] = [197,99\omega] = 197$$

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