

عرفان حقیقی یازدهم

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

$$\frac{-n^2+n}{n-1} = \Rightarrow n < \boxed{2} \checkmark$$

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

پس جواب 1

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

n)

1, 5

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

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

$$2) \quad \frac{n-2}{r_{n+1}} > 1 \Rightarrow \frac{n-2-r_{n+1}}{r_{n+1}} \Rightarrow \frac{-n-2}{r_{n+1}}$$

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

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

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

$$\cancel{1 \cup r} \Rightarrow \{ -r, \frac{1}{r} \} - \{ -\frac{1}{r} \}$$

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

$$-r < n < r \quad (r)$$

$$n+4 < -n^r \Rightarrow n^r + n+4 < \quad \text{this is good}$$

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

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

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

$$\begin{aligned} \max &= \mu \Rightarrow \max + \min = \mu \\ \min &= -1 \end{aligned}$$

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

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

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

$$n = -r$$

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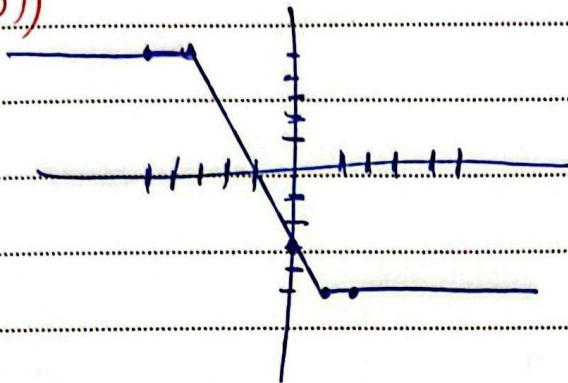
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(الف)



-5	-2	0	5
1	1	-1	-1

(4) 1.75

بالزائدين برآلت فقط عددان
صحيح خبر براس سؤر

$$R_f = [-5, -2, -1, 0, 1, 2, 3, 4, 5]$$

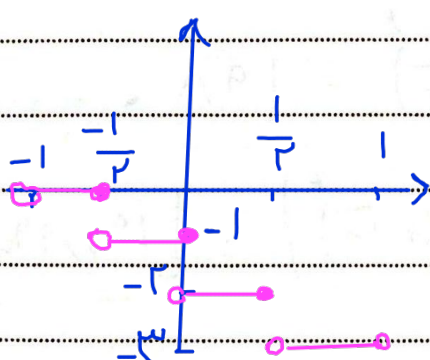
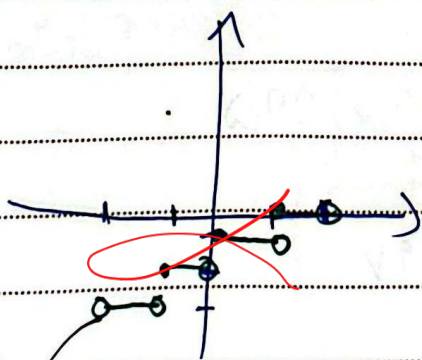
$$f(x) = \frac{1}{n} - \left[1 + \frac{1}{n}\right] \Rightarrow \frac{1}{n} - \left[\frac{1}{n}\right] - 1$$

رقت! (0.1)

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

$$[-1, 1] - 1 \Rightarrow -1 (n < 1 \Rightarrow -1) (-1, 1) \Rightarrow -1 (-1, 1) \Rightarrow -1$$

- ① $-1 (-1, 1) \Rightarrow y = -1$ ② $-1 (-1, 1) \Rightarrow y = -1$
 ③ $-1 (-1, 1) \Rightarrow y = -1$ ④ $-1 (-1, 1) \Rightarrow y = -1$



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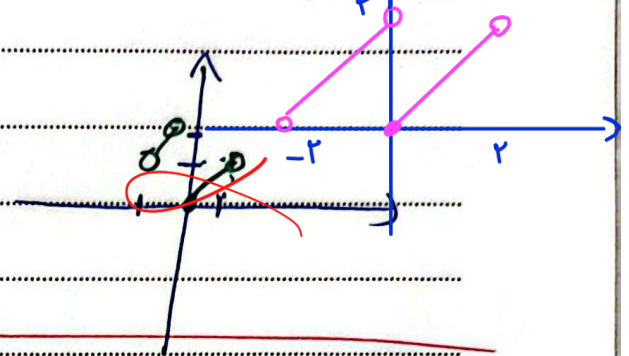
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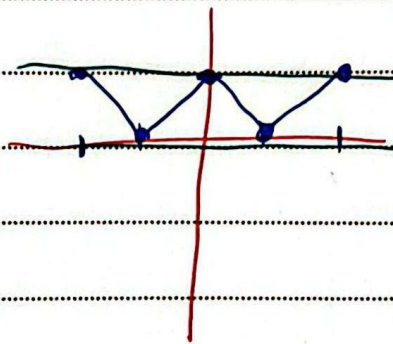
$$\rightarrow n = r \left[\frac{n}{r} \right] \Rightarrow -r < n < r \Rightarrow -1 < \frac{n}{r} < 1$$

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

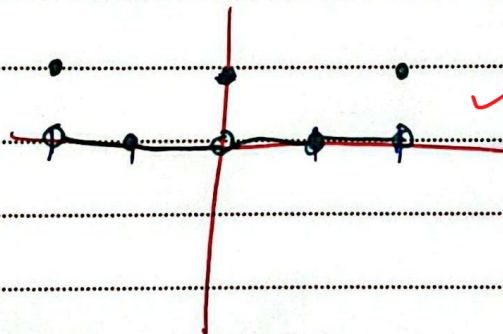
$$0 < \frac{n}{r} < 1 \Rightarrow y = n$$



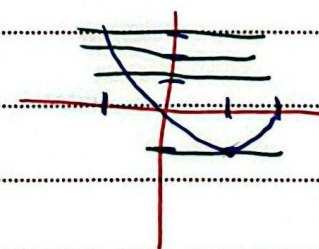
الف) $| |n| - 1 | \Rightarrow$



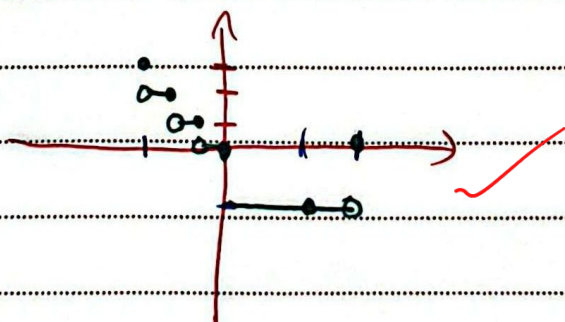
$$[|n| - 1] \Rightarrow$$



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



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



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$$a = [a] + \text{جزء صحیح } a$$

$$b = [b] + \text{جزء صحیح } b$$

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

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

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

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

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

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

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

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

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

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