

~~50~~

$$\underline{n = 0.4}$$

کے رشتہ داروں

④

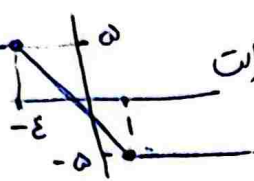
$\frac{r_n - 1}{r_n + 1} < 0$

5

G

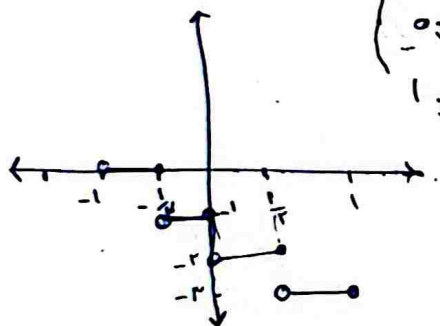
$$y' = \left| \frac{1}{r}(u + f) \right| - 1 \quad \rightarrow \quad -\frac{1}{r}u - r = \frac{1}{r}u + r - 1 \rightarrow \underline{u = -r}$$

$$y' = \left| \frac{1}{r}(u + \epsilon) \right| - 1 \quad \rightarrow \quad -\frac{1}{r}u - r = \frac{1}{r}u + r - 1 \rightarrow \underline{u = -r}$$

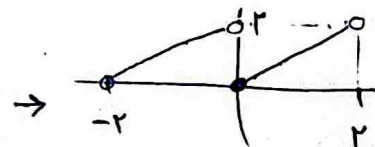
الف) $|n-1| - |n+4| \rightarrow$  $R = [0, 4, 3, 2, 1, 0, -1, -2, -3, -4, -5]$

ب) $\frac{1}{n} - [\frac{1}{n}] - 1 \rightarrow R = [-1, 0)$
 $[0, 1)$

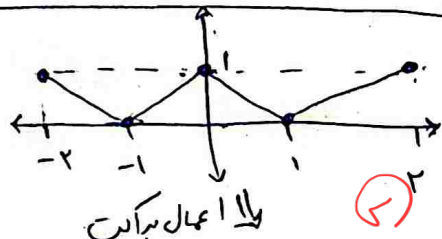
الف) $-2 < -2n < 2 \rightarrow$
$$\begin{cases} -2 < -2n < -1 \rightarrow [-2n] = -2 \rightarrow y = -3 \rightarrow +\frac{1}{n} < n < 1 \\ -1 < -2n < 0 \rightarrow [-2n] = -1 \rightarrow y = -2 \rightarrow 0 < n < \frac{1}{n} \\ 0 < -2n < 1 \rightarrow [-2n] = 0 \rightarrow y = -1 \rightarrow -\frac{1}{n} < n < 0 \\ 1 < -2n < 2 \rightarrow [-2n] = 1 \rightarrow y = 0 \rightarrow -1 < n < -\frac{1}{n} \end{cases}$$



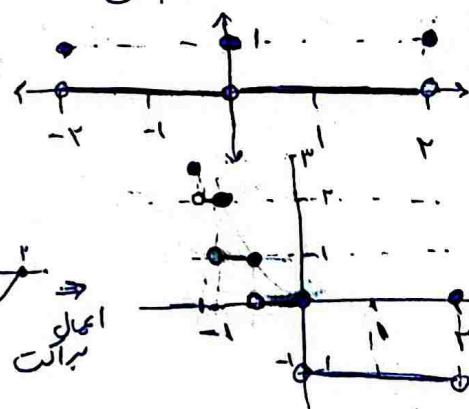
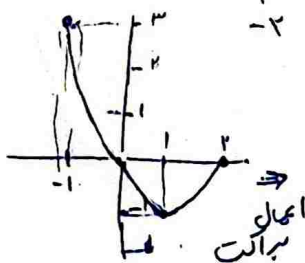
ب) $-1 < \frac{n}{n} < 1 \rightarrow$
$$\begin{cases} -1 < \frac{n}{n} < 0 \rightarrow [\frac{n}{n}] = -1 \rightarrow y = n+2 \rightarrow -2 < n < 0 \\ 0 < \frac{n}{n} < 1 \rightarrow [\frac{n}{n}] = 0 \rightarrow y = 0 \rightarrow 0 < n < 2 \end{cases}$$



الف) $[-2, 0) \rightarrow \ominus \rightarrow [1-n-1] \begin{cases} [-2, -1] \rightarrow \oplus \rightarrow [-n-1] \\ (-1, 0) \rightarrow \ominus \rightarrow [n+1] \end{cases}$
 $[0, 2] \rightarrow \oplus \rightarrow [1-n-1] \begin{cases} [0, 1) \rightarrow \ominus \rightarrow [1-n] \\ [1, 2] \rightarrow \oplus \rightarrow [n-1] \end{cases}$



ب) $y = [n^2 - 2n] \rightarrow n^2 - 2n \rightarrow n=0 \rightarrow y=0$
 $n=2 \rightarrow y=0$
 $n=1 \rightarrow y=-1$
 $n=-1, y=3$



$a = 1, 2, b = 1, 4 \rightarrow a+b = 5, 6$

$[(1+\sqrt{2})^4] = [198 - \underbrace{(1-\sqrt{2})^4}_{=0.1}] = [198 - \underbrace{(-0.1)^4}_{<1}] = [197, \dots] = 197$