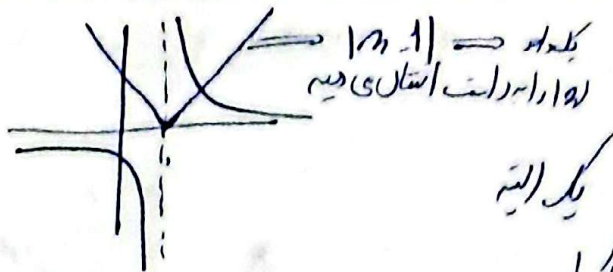


$\frac{1}{a-1}$
مشتقام از $y = \ln(x)$



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

سید علی فیضان اکبر

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

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

هراریت

$$-P_{n+1} < P_n \implies 1 < P_n$$

$$\frac{1}{F} \text{ cm}$$

⑦

Q. 23-1

۱۰. ارشی میوه و سبزیجات

$$2 = \frac{a}{c} = \text{حاصل امتی}$$

ای بیت آردن
مقدمه

$$\frac{1 - \rho_A}{2} \leq \rho \Rightarrow 1 - \rho_A \leq 2\rho \Rightarrow \rho \geq \frac{1 - \rho_A}{2}$$

$$n > \frac{1}{\epsilon}$$

۲)

$$\left| \frac{a_n}{r_{n+1}} \right| > 1$$

$$\frac{n-1}{n+1}$$

$$n-r \geq r+1 \Rightarrow n < -r+1$$

$$\frac{n-p}{p n + 1}$$

$$n - Y < -Yn - 1$$

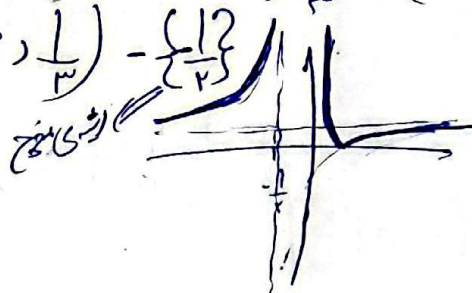
① VP

$$n-1 < c \Rightarrow n \leq \frac{1}{\sqrt{c}}$$

$$Y_{n+1} \neq 0$$

$$\Rightarrow n = \frac{1}{r}$$

$$= \left(-\infty, \frac{1}{3}\right) - \left\{\frac{1}{2}\right\}$$



$$2^7 < |2+9| \rightarrow$$

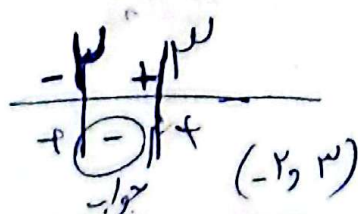
$$2^Y \subset 2^{Y+1}$$

$$n_1 \leq n_2^p \Rightarrow n_1^p + n_1 q < 0$$

22-2-44

$$(x - \mu)(x + \mu) < 0$$

$$\Delta C_c = a_v \cdot s_v$$



$$n, (-1, w) \Rightarrow |a - \frac{a \cdot b}{r}| < \frac{b \cdot a}{r}$$

$$\textcircled{a \cdot \frac{1}{r}} \quad |a - \frac{1}{r}| < \frac{a}{r}$$

$$F \begin{vmatrix} -1 \\ 1 \end{vmatrix}$$

$$A \begin{vmatrix} -1 \\ 1 \end{vmatrix}$$

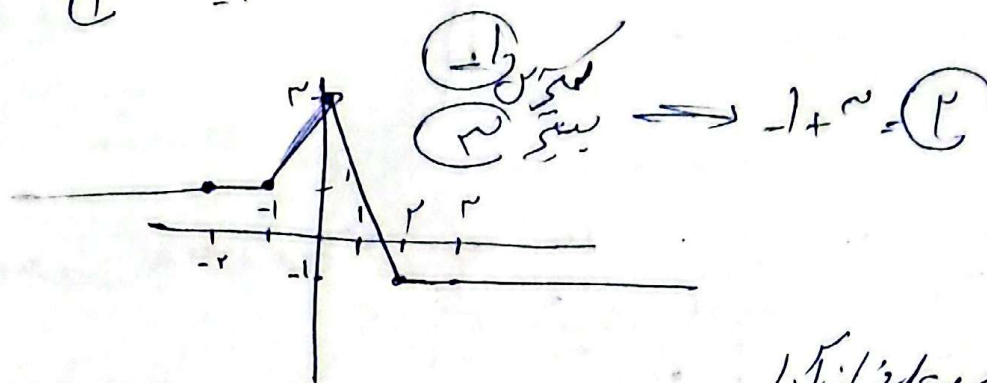
$$B \begin{vmatrix} 0 \\ 2 \end{vmatrix}$$

$$C \begin{vmatrix} 2 \\ -1 \end{vmatrix}$$

$$D \begin{vmatrix} 3 \\ -1 \end{vmatrix}$$

$$g = |n+1| - |2n| + |n-2|$$

$$\textcircled{1} \textcircled{2} \quad -4 \quad 4$$

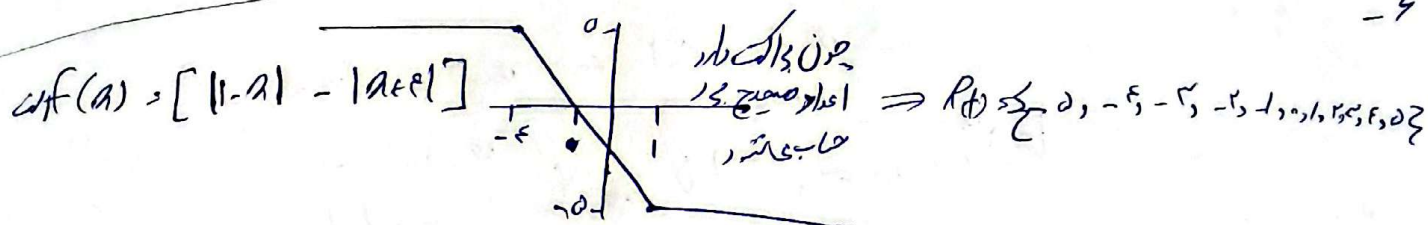


سید علی زان آباد

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

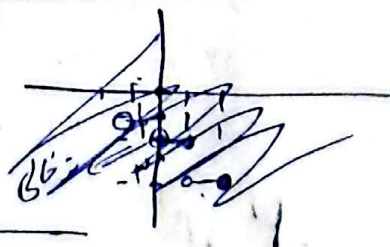
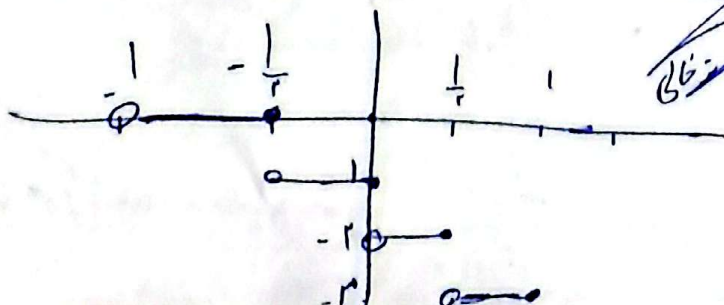
عبارت $1 + \frac{1}{n}$ را در طرفین $f(n)$ می بینیم

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



$$\begin{aligned} \rightarrow \frac{1}{n} - \left[\frac{n+1}{n} \right] &= \frac{1}{n} - 1 - \left[\frac{1}{n} \right] = \frac{1}{n} - \left[\frac{1}{n} \right] - 1 \Rightarrow R(f) = [-1, 0] \\ \left[1 + \frac{1}{n} \right] &= 1 + \left[\frac{1}{n} \right] \\ \frac{1}{n} + 1 - \left[1 \right] &= \left[\frac{1}{n} \right] = [0, 1] \\ \left[0, 1 \right] - 1 &= [-1, 0] \end{aligned}$$

$$g = [-2n] - 1 \quad n \in (1, 1)$$

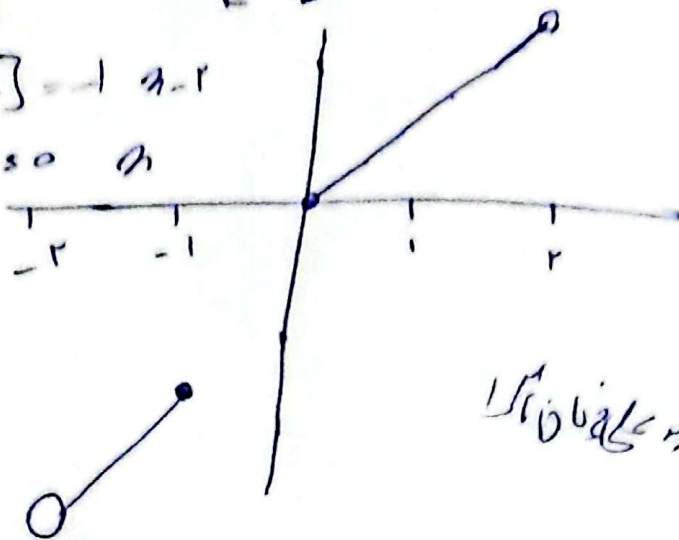


$$\begin{aligned} n \in \left(0, \frac{1}{2} \right] &\Rightarrow [-2n] = -1 \\ n \in \left(\frac{1}{2}, 1 \right] &\Rightarrow [-2n] = -2 \\ n \in \left(1, \frac{3}{2} \right] &\Rightarrow [-2n] = -3 \\ n \in \left(\frac{3}{2}, 2 \right] &\Rightarrow [-2n] = -4 \end{aligned}$$

$$c = a - r \left[\frac{a}{r} \right] \quad a \in (\mathbb{R}, r)$$

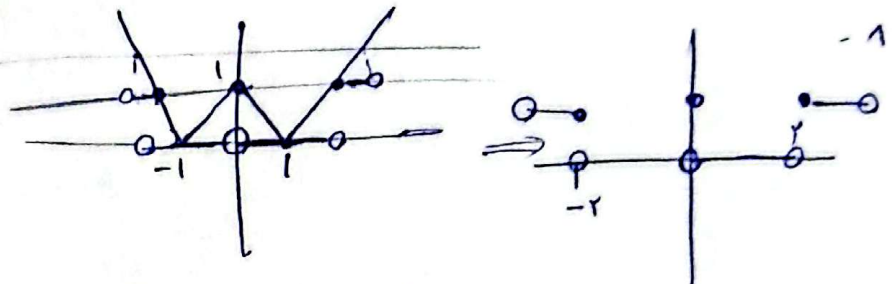
$$a \in (-r, 0) \rightarrow \left[\frac{a}{r} \right] = -1 \quad a - r$$

$$a \in [0, r) \rightarrow \left[\frac{a}{r} \right] = 0 \quad a$$

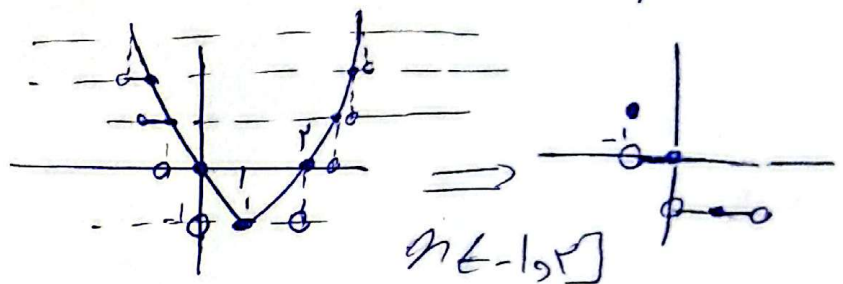


Vorbild

$$w) = [|a| - 1]$$



$$c) \quad s = [a^r - r a]$$



$$b - [a] \in \mathbb{R} \quad [b] - [a] \in \mathbb{Z} \Rightarrow r[b] \in \mathbb{Z} \Rightarrow [b] \in \mathbb{Z} = \{a = 1/r\}$$

$$a + [b] \in \mathbb{R} \quad [a] + [b] \in \mathbb{Z} \Rightarrow [a] = 1 \quad \{b \in \mathbb{R}\}$$

$$\mathbb{R}/\mathbb{Z} + 1/\mathbb{Z} \in \mathbb{R}/\mathbb{Z}$$

$$(1 + \sqrt{r})^r, (1 + \sqrt{r})^r \Rightarrow (1 + \sqrt{r})^r = 1 + r\sqrt{r} + \dots = 1 + r\sqrt{r} + \dots$$

$$1 + r + \dots \in \mathbb{R}/\mathbb{Z}$$

$$[1 + r, 1 + r] \in \mathbb{R}/\mathbb{Z}$$