

$$\frac{1}{n-1} = |n-1|$$

$$|n-1| = n-1$$

حیاتیاتی

$$\begin{aligned} n-1 > 0 &\rightarrow n > 1 \rightarrow |n-1| = n-1 \rightarrow \frac{1}{n-1} = n-1 \rightarrow (n-1)^2 = 1 \rightarrow n-1 = \pm 1 \rightarrow n = 2 \\ n-1 < 0 &\rightarrow |n-1| = -(n-1) \rightarrow \frac{1}{n-1} = -\frac{1}{n-1} \rightarrow (n-1)^2 = -1 \end{aligned}$$

$$n = 2$$

$$I) \left| \frac{r_{m-1}}{n} \right| < r \rightarrow -r < \frac{r_{m-1}}{n} < r \rightarrow n \neq 0 \rightarrow \frac{r_{m-1} - r_m}{n} < 0 \rightarrow \frac{1}{n} < 0$$

$$r_{m-1} > 0 \rightarrow -r < \frac{r_{m-1}}{n} \rightarrow \frac{r_{m-1} + r_m}{n} > 0 \rightarrow \frac{r_{m-1}}{n} > 0$$

$$r_{m-1} > 0 \rightarrow n > 0 \rightarrow n > \frac{1}{\epsilon}$$

$$r_{m-1} < 0 \rightarrow n < 0 \rightarrow n < -\frac{1}{\epsilon}$$

$$\left| n \right| > \frac{1}{\epsilon}$$

$$II) \left| \frac{n-r}{r_{m+1}} \right| > 1 \rightarrow r_{m+1} \neq 0 \rightarrow n \neq -\frac{1}{r} \rightarrow \frac{n-r}{r_{m+1}} > 1 \rightarrow \frac{n-r-(r_{m+1})}{r_{m+1}} > 0 \rightarrow \frac{-n-r}{r_{m+1}} > 0$$

$$-n-r < 0, r_{m+1} < 0 \rightarrow n > -r, n < -\frac{1}{r} \rightarrow -r < n < -\frac{1}{r}$$

$$\frac{n-r}{r_{m+1}} < -1 \rightarrow \frac{n-r+(r_{m+1})}{r_{m+1}} < 0 \rightarrow \frac{r_{m-1}}{r_{m+1}} < 0 \rightarrow n < \frac{1}{r}$$

$$-\frac{1}{r} < n < \frac{1}{r} \rightarrow (-r, -\frac{1}{r}) \cup (-\frac{1}{r}, \frac{1}{r})$$

$$n^2 < |n+4| \quad |n-4| < \beta$$

$$n^2 < n+4 \rightarrow n^2 - n - 4 < 0 \rightarrow (n-5)(n+2) < 0 \rightarrow -5 < n < 2 \rightarrow n \geq -4 \checkmark$$

$$-5 < n < 2$$

$$n+4 < 0 \rightarrow n < -4 \rightarrow n^2 < -(n+4) \rightarrow n^2 + n + 4 < 0$$

$$\Delta = 1 - 16 = -15 < 0 \quad \times$$

$$|n-4| < \beta$$

$$\alpha = \frac{-r+r}{r} = \frac{1}{r}$$

$$\beta = \frac{r-(-r)}{r} = \frac{2}{r}$$

$$y = |n+4| - |r_m| + |n-2|$$

$$n = -1, 0, 1$$

$$1) n < -1 \rightarrow y = 1$$

$$2) -1 \leq n < 0 \rightarrow y = r_m + \beta$$

$$3) 0 \leq n < 1 \rightarrow y = r - r_m$$

$$4) n \geq 1 \rightarrow y = -1$$

$$r_0 + (-1) = r$$

$$y = \left| \frac{1}{r} m \right| - r \rightarrow \left| \frac{m}{r} \right| - r \rightarrow \left| \frac{m+\varepsilon}{r} \right| - 1 \rightarrow \left| \frac{m}{r} - r \right| = \left| \frac{m+\varepsilon}{r} \right| - 1$$

$$m = -r \rightarrow m \text{ db} = -r$$

مجموع: $\varepsilon = 0$ دیکھیں $\varepsilon = 0$ سے متعلق

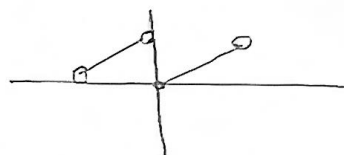
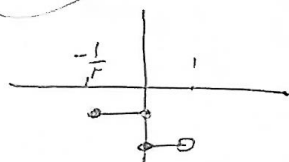
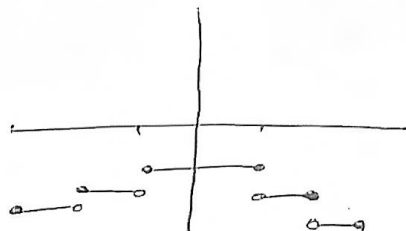
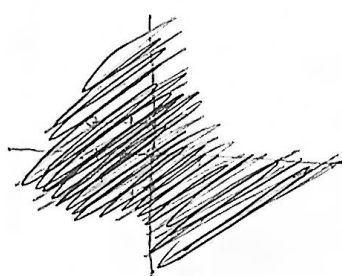
$$y = |1-m| - |m+\varepsilon| =$$

$$m < -\varepsilon \rightarrow y = -\Delta$$

$$-\varepsilon \leq m < 1 \rightarrow y = -rm - r \rightarrow R = [-\Delta, \Delta]$$

$$m > 1 \rightarrow y = -\Delta$$

$$\frac{1}{m} \left[\frac{n+1}{n} \right] =$$



$$a = [a] + \{a\}, b = [b] + \{b\}$$

$$\{a\} + [a] + [b] = \varepsilon, \varepsilon \rightarrow \{a\} < 1$$

$$\{b\} + [b] - [a] = \varepsilon, \varepsilon \rightarrow \{b\} < 1$$

$$\{b\} < 1 \rightarrow [b] - [a] = \varepsilon \rightarrow \{b\} = \varepsilon, \varepsilon \rightarrow \{a\} + [a] + [b] = \varepsilon, \varepsilon$$

$$[b] = [a] + \varepsilon \rightarrow \{a\} + [a] + [b] = \varepsilon, \varepsilon$$

$$r[a] + r + \{a\} = \varepsilon, \varepsilon \rightarrow r[a] + \{a\} = \varepsilon, \varepsilon \rightarrow [a] = 1 \rightarrow r \times 1 + \{a\} = \varepsilon, \varepsilon$$

$$\{a\} = \varepsilon, \varepsilon$$

$$a = 1 + \varepsilon, \varepsilon = 1, \varepsilon \quad b = 1 + r + \varepsilon, \varepsilon = 1, \varepsilon$$

$$a+b = \varepsilon, \varepsilon + 1, \varepsilon = \varepsilon, \varepsilon$$

$$(1-\sqrt{2})^4 = 99 - 100\sqrt{2}$$

$$(1+\sqrt{2})^2 = 3 + 2\sqrt{2}$$

$$(1+\sqrt{2})^4 = 17 + 34\sqrt{2}$$

$$(1+\sqrt{2})^4 = (1+\sqrt{2})^2(1+\sqrt{2})^2 = 99 + 100\sqrt{2}$$

$$191 = 99 + 99 =$$

$$99 + 100\sqrt{2} \leq 99 + 99/99 = 191/99$$