

$$a, r, a, r$$

$$f(n) = \sqrt{r_n + b} \quad r_n^2 + b = -4$$

$$\Delta < 0 \quad f = r(1 - m^2) < 0$$

$$\alpha > 0$$

$$r(1 - r + m^2) < 0 \quad m^2 - 1 < 0 \quad m^2 < 1 \quad -1 < m < 1 \quad 1 - (-1) = 2$$

$$\text{نتیجه} \rightarrow \{n\} + \{-n\} - 1$$

$$x \in \mathbb{R} \rightarrow x \in \mathbb{Z} \quad x^2 < 2 \rightarrow -2 < x < 2 \rightarrow -2, -1, 0, 1, 2 \rightarrow \{a\}$$

$$x^2 + x_n^2 > 0 \quad m^2(m + r) > 0 \quad \frac{-r}{-r + r} \quad [-r, +\infty) \rightarrow \text{محدود}$$

$$b) \quad y = \sqrt{\frac{(n+1)(x^2 - r_n^2)}{m^2 - 1}} \rightarrow \frac{r}{m^2 - 1} \rightarrow \frac{r}{-1 - 1} = -\frac{r}{2}$$

اگر

$$(-\infty, -1] \cup [r, +\infty)$$

$$|n - r| - r > 0 \quad |n - r| > r$$

$$n - r > r \quad n - r < -r \quad n > 2r \quad n < -r \rightarrow (-\infty, -r] \cup [2r, +\infty)$$

ب)

$$r - |r - n| > 0$$

$$|r - n| < r \quad r - n < r \quad n > -r \quad n < 2r$$

$$[-r, 2r] \rightarrow \text{محدود}$$

ج)

$$1 - |n| > 0 \quad |n| < 1 \quad n < 1 \quad (-\infty, +1]$$

$$b) \quad r - |n - \omega| > 0 \quad |n - \omega| < r \quad n - \omega < r \quad n - \omega > -r \quad n > -r \quad n < 1 \quad [r, 1] - \{0, 1\}$$

$$\sqrt{r - |n - \omega|} - 1 \neq 0 \quad 2n - \omega \neq r \quad n \neq 0 \quad n - \omega \neq -r \quad n \neq r$$

$$\cos m \neq 0 \quad m \neq k \pi \pm \pi/4 \quad D_f \rightarrow R - \{k\pi \pm \pi/4\}$$

$$r \cos m \neq 0$$

$$\cos m \neq 1/4 \quad m \neq r k \pi \pm \pi/\mu \quad D_f, R - \{r k \pi \pm \pi/\mu\}$$

$$\Rightarrow |r_{n+1}| - |n+r| \neq 0$$

$$(r_{n+1})^r \neq (n+r)^r$$

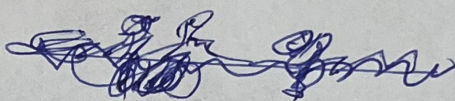
$$|r_{n+1}| \neq |n+r|$$

$$\sum n^r + \sum n+1 - n^r - 4n - 9 \neq 0$$

$$|R - \{-\varepsilon/\mu, r\}|$$

$$(ac) (n-4)(n+r) \rightarrow -\varepsilon/\mu \quad 4/\mu < (r)$$

$$\Rightarrow |r_{n+1}| - |n+r| \geq \frac{1}{\mu}$$



$$r_{n-1} \geq 0 \quad r_n > 1 \quad n > 1/4$$

$$\log_a^{r_{n-1}} > 0 \quad r_{n-1} > 1 \quad n > 1$$

$$\log_{1/4} \log_a^{(r_{n-1})} \geq 0 \Rightarrow \log_a^{r_{n-1}} \leq 1 \quad r_{n-1} \leq a \quad r_n \leq 1 \Rightarrow n \leq r$$

$$[1, r]$$

$$r \cos m+1 \geq 0 \quad \cos m \geq -1/4 \quad D_f = \{r k \pi - (r/\mu), r k \pi + (r/\mu)\}$$

$$\frac{n-1}{n+1} \quad \frac{-1}{r \neq -1} \quad n > 1$$

$$n < -1 \Rightarrow (-\infty, -1) \cup [1, +\infty)$$

$$\log \frac{n-1}{n+1} \geq 1 \quad \frac{n-1}{n+1} \geq 1 \quad \frac{n+1-n-1}{n+1} \geq 0 \Rightarrow n \in R$$