

a, r, a, r

$\ln, r, a$

①

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

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

②

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

③

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

④

$x \in R, Z \rightarrow x \in Z$ $x^2 < 2$ $-2 < x < 2$ $\rightarrow -2, -1, 0, 1, 2 \rightarrow \infty$

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

⑤

ب) $\int \frac{(n+1)(x^2 - r_n^2)}{n^2 - 1} dx$ $\rightarrow \frac{r}{n^2 - 1}$ $\rightarrow \frac{r}{n^2 - 1}$ $\rightarrow \frac{r}{n^2 - 1}$

⑥

به ازای $x = 0$ عبارت برابر 0 است پس در دامنه هست

الف $(-\infty, -1] \cup [r, +\infty) \cup \{0\}$

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

⑦

$n - r > r$ $n - r < -r$ $n > 2r$ $n < 0$ $\rightarrow (-\infty, -r] \cup [2r, +\infty)$

ب) $r - |r - n| < 0$

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

$\sum -r, r \rightarrow \infty$

⑧

الف $1 - |n| > 0$ $|n| < 1$ $n < 1$ $(-\infty, +1)$

⑨

ب) $r - |n - \omega| > 0$ $|n - \omega| < r$ $n - \omega < r$ $n - \omega > -r$ $n > \omega - r$ $n < \omega + r$ $\rightarrow [\omega - r, \omega + r]$

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

⑤

$$\cos n \neq 1 \quad n \neq k\pi \pm \frac{\pi}{\mu} \quad D_f \rightarrow \mathbb{R} - \{k\pi \pm \frac{\pi}{\mu}\}$$

$$\cos n = 1$$

$$\cos n \neq \frac{1}{\mu} \quad n \neq k\pi \pm \frac{\pi}{\mu} \quad D_f, \mathbb{R} - \{k\pi \pm \frac{\pi}{\mu}\}$$

②

$$\text{اذا } |r_{n+1}| - |n+r| \neq 0 \quad (r_{n+1})^r \neq (n+r)^r$$

⑧

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

$$\sum n^2 + \sum n + 1 - n^2 - 4n - 9 \neq 0$$

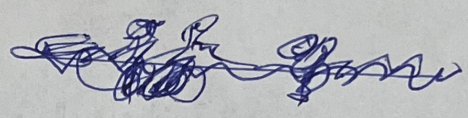
$$|R - \{-\frac{1}{\mu}, r\}|$$

$$(ac) (n-4)(n+4) = 0 \quad -\frac{1}{\mu} \quad 1/\mu \in \mathbb{R}$$

①

$$\rightarrow |r_{n+1}| - |n+r| > 0$$

جواب منقوش



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

④

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

②

$$\log_{1/4} \log_a^{(r_{n-1})} > 0 \rightarrow \log_a^{r_{n-1}} < 1 \quad r_{n-1} < a \quad r_n > 1 \rightarrow n > 1/4$$

اركان $(1, 1/4)$

⑩

$$r \cos n + 1 > 0 \quad \cos n > -1/r \quad D_f = [r k\pi - \frac{\pi}{\mu}, r k\pi + \frac{\pi}{\mu}]$$

④

$$\frac{n-1}{n+1} > \frac{-1}{r+1} \quad n > 1 \quad n < -1 \rightarrow (-\infty, -1) \cup [1, +\infty)$$

دقت کن!

$$\log \frac{n-1}{n+1} > 0 \quad \frac{n-1}{n+1} > 1 \quad \frac{n+1-n-1}{n+1} > 0 \quad n \in \mathbb{R} \quad D_f = (-\infty, -1)$$

$$7- \text{ب}) \frac{(n^2-1)(n^2-n^2)}{(n^2-1)} \geq 0 \rightarrow \frac{(n-1)(n+1)(n^2)(n-1)}{(n-1)(n^2+n+1)} \geq 0$$

$$Df = (-\infty, -1] \cup \{0\} \cup [3, +\infty)$$

Δc. ریشه ها

-1	*	0	*	3
+	-	-	-	+

$$8- \text{ب}) |x_{n+1}| - |x_n| \geq 0 \rightarrow |x_{n+1}| \geq |x_n| \xrightarrow{\text{توان ۲}} x_{n+1}^2 \geq x_n^2 \rightarrow x_{n+1}^2 - x_n^2 \geq 0$$

$$\frac{-\frac{2}{3}}{+} \frac{2}{-} \rightarrow Df = (-\infty, -\frac{2}{3}] \cup [2, +\infty)$$

$$10- \text{ب}) \frac{n-1}{n+1} > 0 \rightarrow \boxed{n > 1 \leq n < -1}$$

$$\log_{1.} \frac{n+1}{n-1} \geq 0 \rightarrow \frac{n-1}{n+1} \geq (1.) \rightarrow \frac{n-1}{n+1} \geq 1 \rightarrow \frac{n-1}{n+1} - 1 \geq 0 \rightarrow \frac{n-1-n-1}{n+1} \geq 0 \rightarrow \frac{-2}{n+1} \geq 0$$

$$n+1 < 0 \rightarrow \boxed{n < -1} \rightarrow Df = (-\infty, -1)$$