

① $\frac{n+\mu}{r_n^r + r_n^r - 1n + \mu}$ $r_n^r + r_n^r - 1n + \mu \mid \frac{n-1}{r_n^r + \mu n - \mu} \rightarrow 1$ ساختن شیبانی ①

$(\frac{1}{r}), (-r) \leftarrow \frac{n^r + \mu n - \mu}{r_n^r + \mu n - \mu} \leftarrow$

② $D_f = R - \{-r, \frac{1}{r}, 1\}$ $r_n^r + r_n^r - 1n + \mu \mid \frac{n+1}{r_n^r + \mu n + \mu} \rightarrow -1$

$\frac{n+\mu}{r_n^r + \mu n^r + 1n + \mu}$ $D_f = \{-1, -r, -\frac{1}{r}\}$ $-\frac{1}{r}, -r \leftarrow$

③ $\frac{n+\mu}{n^r - r_n^r + r_{n-1}}$ $n^r - r_n^r + r_{n-1} \mid \frac{n-1}{n^r - n + 1} \rightarrow 1$ ③

$D_f = R - \{1\}$

$\frac{n+\mu}{n^r - r_n^r + r_{n-1}}$ $\frac{n+\mu}{(n^r - n + 1)(n-1)} \rightarrow -r$ $\frac{-r}{+1 - \frac{1}{n} +}$

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

$\frac{n^r - \omega(n-1) - r_n + \omega}{n^r - \omega n + \omega - r_n + \omega = n^r - \mu n + 1}$ ④

$D_f = R - \{-r, 0, r, \omega\}$ $n^r + \omega n - \omega - r_n + \omega = n^r + r_n = 0$ ④

$\frac{n(n+\mu)}{n(n+\mu)} \rightarrow -r$ ④

⑤ $\sqrt{[-n] - r} \rightarrow [-n] - r \geq 0 \rightarrow [-n] \geq r$ ⑤

$[m] \leq r \rightarrow D = (-\infty, -r)$ ⑤

$\frac{\omega n^r + 4}{[m]^r - r[m] - r} \rightarrow \{n^r\}^r - r[m] - r \geq 0 \rightarrow [n] \geq -1$ ⑤

$[m] \geq r \rightarrow [r, \{]$ ⑤

$[-1, 0) \cup (r, \{]$

⑥ $\sqrt{[n - \frac{1}{\mu}] + [n + \frac{r}{\mu}]} \rightarrow [n - \frac{1}{\mu} + 1] + [n + \frac{r}{\mu}] \geq 1$ ⑥

$r[n + \frac{r}{\mu}] \geq 1 \rightarrow [n + \frac{r}{\mu}] \geq \frac{1}{r} \rightarrow n + \frac{r}{\mu} \geq 1$ ⑥

$n \geq \frac{1}{\mu}$

$$\text{b)} \quad \sqrt{\left[n - \frac{1}{r}\right] + \left[\frac{1}{r} - n\right]} \quad n - \frac{1}{r} \in \mathbb{Z} \quad n \in \mathbb{Z} + \frac{1}{r}$$

$$D = \left\{ n \mid n = k + \frac{1}{r}, k \in \mathbb{Z} \right\}$$

$$\frac{\cot n + 1}{\tan n + 1} \quad D = R = \left\{ \frac{k\pi}{r}, k\pi + \frac{\pi}{2} \right\} \quad \tan n \neq -1 \quad \sin n \neq 0 \quad \cos n \neq 0$$

$$\sqrt{1 - r \sin^2 n} \quad 1 - r \sin^2 n \geq 0 \quad -\frac{1}{r} \leq \sin n \leq \frac{1}{r}$$

$$D = \left[k\pi + \frac{\pi}{4}, k\pi - \frac{\pi}{4} \right]$$

$$\sqrt{r \sin^2 n - 1} \quad r \sin^2 n \geq 1 \quad \sin n \geq \frac{1}{r}$$

$$D = \left[k\pi + \frac{\pi}{4}, k\pi + \frac{3\pi}{4} \right]$$

$$\sqrt{1 - r \cos^2 n} \quad 1 - r \cos^2 n \geq 0 \quad \cos n \leq \frac{1}{r}$$

$$D = \left[k\pi + \frac{\pi}{2}, k\pi + \frac{3\pi}{2} \right]$$

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

$$\underbrace{-1 \leq n^r + r_{n+1} \leq 1}_{\substack{\text{if } r \geq 1 \\ \text{if } r < 0}} \quad [-r, -r] \cup [-1, 0]$$

$$\cos y = \sqrt{\omega - r_n} \quad \omega - r_n \geq 0 \quad n \geq \frac{\omega}{r}$$

$$-1 \leq \sqrt{\omega - r_n} \leq 1 \quad \omega - r_n \geq 0 \quad D = \left[r, \frac{\omega}{r} \right] \quad n \geq r$$

$$\log_r (1 - \log_r^n)$$

$$1 - \log_r^n > \log_r^n < 1 \quad \begin{matrix} n < r \\ n > \end{matrix}$$

$$(0, r)$$

$$\log_r (\log_r^n)$$

$$1 - \log_{1/r}^n > \log_{1/r}^n < 1$$

$$\begin{matrix} n < 1/r \\ n > \end{matrix}$$

$$(0, 1/r)$$

$$\sqrt{r^{\sum m - r}}$$

$$r^{\sum m - r} \geq 1$$

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$$r^{\sum m - r} \geq 1$$

$$(n - r)(n - 1)$$

$$L \geq r \quad L \geq 1$$

$$\frac{1}{r} \quad \frac{r}{1}$$

$$D = [1, r]$$

$$u) \left(\frac{r_m + a}{r_m + \varepsilon} \right)!$$

$$\frac{r_m + a}{r_m + \varepsilon} \in w$$

$$n = \frac{\sum w + a}{rw - r}$$

$$D = \{n \mid n = \frac{a - \sum k}{rk - r}, k \in w\}$$