

A friend of mine

⑤

$$\begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$$

③

$$\begin{array}{r} + \\ - \\ \hline + \\ - \\ \hline + \end{array} \left(\frac{3}{-1} \right) =$$

1

$$\textcircled{II} \quad \begin{aligned} & \text{for } n \in \mathbb{Z} \\ & [a_n] + [-a_n] = 0 \\ & [a_n] + [-a_n] = -1 \quad n \notin \mathbb{Z} \end{aligned}$$

③

$$\frac{(1) \quad (2) \quad (3) \quad (4)}{(5) \quad (6) \quad (7) \quad (8)}$$

$\Delta < 0$
 7 values

$$[r, +\infty) = \emptyset$$

$\frac{1}{2}$

3-1-2
3-1-2

$$D_f = [0, +\infty) \cup (-\infty, -1]$$

$$\begin{array}{r} \text{---} \\ -37-23 \\ -96-82 \end{array}$$

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$

$$D_f = [-r, y]$$

$$y = \sqrt{1 - \alpha|\lambda|} \geq 0 \quad \text{für } \lambda \in \mathbb{R} \text{ mit } |\lambda| \leq 1$$

$$\xrightarrow{1+} D_f = \begin{bmatrix} -2 & 1 \end{bmatrix}$$

$$\frac{1}{\sqrt{r^2 - |n-d| - 1}} \neq \frac{1}{\sqrt{r^2 - |n-d| + 1}}$$

② $\sqrt{2 - \sqrt{2 - 2}} = 2$

$\begin{array}{c} 2 \\ \vee \\ 1-0-1 \\ | \\ \begin{array}{c} 1-1-0-0-1 \\ \vee \\ 1-1-0-0-1 \\ \vee \\ 1-1-0-0-1 \end{array} \end{array}$

$$\textcircled{1} \cap \textcircled{F} \rightarrow [r, \lambda] = \{v^u, v^l\}$$

$$\text{ii) } y = \frac{\sin^2 \alpha - 1}{\cos \alpha} \rightarrow \cos \alpha + \dots \quad R - f \quad k r r \frac{y}{r} = R_y \quad \textcircled{V}$$

7.) $y = \frac{G_2}{K_{G_2-1} \cdot G_1}$

$$\text{ii) } y = \frac{n+r}{n+r}$$

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

$$|r_{n+1}| \neq |n+r| \quad \text{حيث}$$

(A)

$$\rightarrow |r_{n+1}| + 1 + \xi_n \neq (n+r+q+em) \rightarrow \xi_n + \xi_{n+1} - n - q - 2em \neq 0$$

$$r_{n+1} - r_n - 1 \neq 0 \rightarrow r_{n+1} - r_n - \sqrt{2} \neq 0$$

$$\left(\frac{n}{4} - q\right) \left(\frac{n}{2} + \xi\right)$$

$$\rightarrow y = \sqrt{|r_{n+1}| - |n+r|}$$

$$-\frac{y}{2} \left(\frac{1}{2}\right)$$

$$Df = 11P - 9r - \frac{3}{2}$$

$$|r_{n+1}| \geq |n+r| \xrightarrow{\text{حيث}} \xi_n + 1 + \xi_n \geq n + q + em$$

$$r_{n+1} - r_n - \sqrt{2} \geq 0$$

$$\begin{aligned} n^2 - r_n - \sqrt{2} &\geq 0 \\ (n-q)(n+\xi) &\geq 0 \end{aligned}$$

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

$$f(n) \Rightarrow \sqrt{\log_{10} \log^{(n-1)} 2}$$

(I) $\log^{(n-1)} 2 > 0 \Rightarrow n > \frac{1}{2}$
 (II) $\log_8 \log^{(n-1)} 2 > 0 \rightarrow \log^{(n-1)} 2 > 1 \rightarrow n > 1$
 (III) $\log_{10} \log^{(n-1)} 2 \geq 0$ بينين $\log^{(n-1)} 2 \leq 1 \rightarrow n-1 \leq 1 \rightarrow n \leq 2$
 $(I) \cap (II) \cap (III) \Rightarrow 1 < n \leq 2 \quad D_f = (1, 2]$

الف) $y = \log^{(n)} \cos n + 1 \rightarrow \cos n > -\frac{1}{2}$



$D_f = \mathbb{R} - [2k\pi + \frac{2\pi}{3}, 2k\pi + \frac{4\pi}{3}]$
 $D = (-\infty, -1)$

$y = \sqrt{\log \frac{n-1}{n+1}} \geq 0$
 (I) $\frac{n-1}{n+1} > 0$
 (II) $\log \frac{n-1}{n+1} \geq 0$
 $(I) \cap (II) \rightarrow 1 < \frac{n-1}{n+1} \rightarrow \frac{n-1}{n+1} \geq 0$
 $\rightarrow n > 1$