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$$D = \{1 \leq m \leq n\}$$



⑦

$$-k_{\text{off}} \cdot \text{II} \cdot \text{E}_2 \cdot \text{E}_3$$

③

1

2) Teles

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

$\begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{array}$

$P = [r, y]$

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①

✓ # 10-01

$$r \neq p$$

△

④

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

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

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

①

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

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

$$(n-r)(n+\xi)$$

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

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

$$Df = 119 - 119 - \frac{1}{2}$$

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

$$n+r - r\xi \geq 3$$

$$(n-r)(n+\xi) \left(\frac{3}{2} \right) \xrightarrow{\div 2} \left(\frac{3}{2} \right) \xrightarrow{\div 2} \left(\frac{3}{4} \right)$$

$$\frac{-\frac{3}{2}}{119 - 119} + \frac{1}{2}$$

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

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

(I) $\frac{n-1}{2} > 0 \Rightarrow n > \frac{1}{2}$

(II) $\log_8^{n-1} > 0 \rightarrow n-1 > 0 \rightarrow n > 1$

(III) $\log_{10} \log^{n-1} \geq 0$ بينين $\log_0^{n-1} \leq 1$ بينين $\rightarrow n-1 \geq 0 \rightarrow n \geq 1$

$(I) \cap (II) \cap (III) \Rightarrow 1 < n \leq 2 \quad D_f = (1, 2]$

الف) $y = \log^{2 \cos n + 1}$ $2 \cos n + 1 > 0$

$\cos n > -\frac{1}{2}$



$D_f = \mathbb{R} - [2k\pi + \frac{2\pi}{3}, 2k\pi + \frac{4\pi}{3}]$

$y = \sqrt{\log \frac{n-1}{n+1}} \geq 0$

(I) $\frac{n-1}{n+1} > 0$

(II) $\log \frac{n-1}{n+1} \geq 0$

$(I) \cap (II) \Rightarrow D = (-\infty, -1)$

$1 < \frac{n-1}{n+1} \rightarrow \frac{n-1}{n+1} \geq 0$

$\frac{n-1}{n+1} \geq 0 \Rightarrow n-1 \geq 0 \Rightarrow n \geq 1$