

الف) $\frac{n+r}{(n-1)(r-1)(n+r)} \Rightarrow R - \{1, \frac{1}{2}, r-r\} \checkmark$

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② - 1

ب) $\frac{n+r}{(n+1)(r+1)(n+r)} \Rightarrow R - \{-1, \frac{1}{2}, r-r\} \checkmark$

$\Rightarrow R - \{-1, \frac{1}{2}, r-r\} \checkmark$

ج) $\frac{n+r}{(n-1)(r-n+1)} \Rightarrow R - \{1\} \checkmark$

$\Rightarrow R - \{1\} \checkmark$

②

د) $\frac{1}{\frac{1}{r} - 1} \Rightarrow (-\infty, r] \cup [1, +\infty)$

هـ) $\frac{r}{n+r} = \frac{r}{n(n+r)} \Rightarrow n \neq \{0, r-r\}$

$\frac{r}{n+r} = \frac{r}{(n-r)(n-r)} \Rightarrow n \neq \{r, \omega\} \Rightarrow R - \{r, \omega\} \checkmark$

و) $\begin{cases} -n+r \neq 0 \\ -r-n-r \neq 0 \\ r-n-r \neq 0 \end{cases} \Rightarrow R - \{\frac{1}{2}, r-r\} \checkmark$

لا حل كامل!

$\Rightarrow R - \{\frac{1}{2}, r-r\} \checkmark$

②, ⑤

ز) $\{n^r + r, n+1\} \Rightarrow n^r + 4n + 4 \Rightarrow r n^r - r n - 1$

$\Rightarrow (n-r)(r n + r) \Rightarrow (-\infty, r-\frac{r}{r}] \cup [r, +\infty) \checkmark$

ح) $n > 0$

$\log_n n < 1 \Rightarrow n(r) \Rightarrow (0, r) \checkmark$

②

ط) $n > 0$

$1 - \log_{\frac{1}{r}} n > 0 \Rightarrow \log_{\frac{1}{r}} n < 1 \Rightarrow n > \frac{1}{r} \Rightarrow (\frac{1}{r}, +\infty) \checkmark$

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

$$\log_a^{2n-1} > 0 \Rightarrow 2n-1 > 0 \Rightarrow n > \frac{1}{2}$$

(4)

$$\log_a^{2n-1} \leq 1 \Rightarrow 2n-1 \leq a \Rightarrow n \leq \frac{a+1}{2} \Rightarrow (1, 6.5] \checkmark$$

الف) $2 \cos(n+1) = 2 \cos n = \frac{1}{2} \Rightarrow (2k\pi - \frac{\pi}{3}, 2k\pi + \frac{\pi}{3}) \checkmark$

$$\Rightarrow \frac{n-1}{n+1} \cdot \frac{-1}{+1} +$$

$$\frac{n-1}{n+1} > 1 \Rightarrow \frac{-1}{n+1} > 0 \Rightarrow (\infty, -1) \quad (4)$$

$$\Rightarrow \cdot 1 = (-\infty, -1) \checkmark$$

$$a = -2 \Rightarrow -2n + b > 0 \Rightarrow 2n < b \Rightarrow n < \frac{b}{2} \Rightarrow b = 4 \checkmark \quad (4)$$

$$4 - 1 + 4m^2 \leq 0 \Rightarrow m^2 - 1 \leq 0 \Rightarrow -1 \leq m \leq 1 \Rightarrow 1 - (-1) = 2 \checkmark \quad (4) - 9$$

$$4 - n^2 > 0 \Rightarrow (2-n)(2+n) > 0 \Rightarrow -2 < n < 2 \quad (4) -$$

$$\{-2.5, -1.5, -0.5, 0.5, 1.5\} \rightarrow 5 \checkmark$$

مخرج هر کس
چون به ازای صیغه
میباشد