

بر مبنای کتب در دسترس

الف) $\sqrt{\cos n + 1} \neq 0 \rightarrow \sqrt{\cos n} \neq -1 \rightarrow \cos n \neq -\frac{1}{4}$

$D_f = \mathbb{R} - \left\{ 2k\pi + \frac{3\pi}{2}, 2k\pi + \frac{5\pi}{2} \right\}$



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ب) $\cos n - 1 \neq 0 \rightarrow \cos n \neq 1$

$D_f = \mathbb{R} - \{ 2k\pi \}$



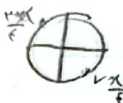
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الف) $\tan n = \frac{\sin n}{\cos n} \rightarrow \cos n \neq 0$



$\tan n + 1 \neq 0 \rightarrow \tan n \neq -1$

$D_f = \mathbb{R} - \left\{ k\pi + \frac{\pi}{4}, k\pi - \frac{\pi}{4} \right\}$



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ب) $\cot n = \frac{\cos n}{\sin n} \rightarrow \sin n \neq 0$



$\cot n - 1 \neq 0 \rightarrow \cot n \neq 1$

$D_f = \mathbb{R} - \left\{ k\pi, k\pi + \frac{\pi}{4} \right\}$



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الف) $-1 \leq \sin n \leq 1 \rightarrow -1 \leq x \leq 1 \rightarrow 1 \leq x \leq \sqrt{3}$

$-1 \leq x \leq -\sqrt{3}$

$D_f = [-\sqrt{3}, -1] \cup [1, \sqrt{3}]$

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ب) $-1 \leq \sqrt{n} \leq 1 \rightarrow \sqrt{n} \leq 1 \rightarrow 1 \leq n \leq 16$

$D_f = [1, 16]$

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الف) $-1 \leq |n| \leq 1 \rightarrow -1 \leq n \leq 1 \rightarrow -1 \leq n \leq 1$

$D_f = [-1, -1] \cup [1, 1]$

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ب) $n^2 + 2n + 1 \leq 1 \rightarrow$

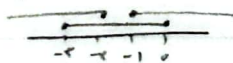
$n^2 + 2n + 1 \leq 1 \rightarrow n(n+2) \leq 0$

$\frac{-1}{1} - \frac{-1}{1}$

$-1 \leq n \leq 1 \rightarrow 0 \leq n^2 + 2n + 1 \leq 1$

$\frac{-1}{1} - \frac{-1}{1}$

$D_f = [-1, -1] \cup [1, 1]$



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$$\begin{array}{c} -x \quad x \\ \hline + \quad - \quad + \end{array}$$

$\mathcal{P}_w$

$$D_f = (-r, r)$$

$$n-v > 0 \rightarrow n > v \rightarrow n-v \neq 1 \rightarrow n \neq 1$$

$$D_f = (r, \omega) - \{e\}$$

$$\begin{array}{r} -1 \quad -1 \\ + \quad - \end{array}$$

$$n_{+}^{\nu} \gamma_0 \rightarrow n_{+}^{\nu} \quad n_{+}^{\nu} \pm 1 \rightarrow n_{+}^{\nu} \quad [D_F = (-\infty, -1) \cup (1, +\infty) - \{ \pm 1 \}]$$

$$D_f \subseteq [1, \infty) \cup (\infty, +\infty)$$

$$n + \omega > 0 \rightarrow n > -\omega \quad n + \omega \neq 1 \rightarrow n \neq -\epsilon$$

$$D_f = (-\infty, -3) \cup (1, +\infty) =]-\infty, -3[\cup]1, +\infty[$$

9.

$$D_f = (x, 10]$$

ب) $x > 0$ $2 \log_x^n - 1 > 0 \Rightarrow \log_x^n > \frac{1}{2} \Rightarrow x > \sqrt{x} \quad | D_{f^2}(\sqrt{x}, +\infty)$

ب) $\varphi^n - 1 \neq 0 \rightarrow \varphi^n \neq 1 \rightarrow n \neq 0 \rightarrow D_{\varphi^n} = R - \{0\}$

c) $\epsilon^{-x} \neq 0 \rightarrow \epsilon^x \neq 0 \quad x \neq \frac{1}{x} \rightarrow |Df| = R - \frac{1}{x^2}$

$$2) \quad \varepsilon - r \neq 0 \quad \varepsilon \neq r \quad \left| \operatorname{Op}_s(R) = \{ \log \varepsilon \} \right|$$

$$D_f = \{n \mid n = \frac{k-1}{f}, k \in \mathbb{N}\}$$

ب) $\frac{r_{n-1}}{r_{n-2}} \in U \xrightarrow{\text{مقسوم علیه مشترک}} \kappa = \frac{-\omega n - r}{r_{n-1}} = \frac{\omega n - r}{r_{n-1}}$

$D_f = f_n / \kappa = \frac{\omega n - r}{r_{n-1}}, \kappa \in U$