

لیکھ کر
جواب دینا
۱۲, ۱۵

ان) $[-1, 2] \rightarrow \begin{cases} 2-x \geq 0 \rightarrow x \leq 2 \\ x-\sqrt{x} \geq 0 \rightarrow x \geq -1 \end{cases}$ (۱) ۱, ۱۵

$[2, 11] \leftarrow (-\infty, 11] \rightarrow \begin{cases} x-2 \geq 0 \rightarrow x \geq 2 \\ x-\sqrt{x-2} \geq 0 \end{cases}$ (۲)

ان) $x-2 \geq 0 \rightarrow \sqrt{x} \geq 0$ $D_F = [\sqrt{2}, -\infty) \rightarrow D_f = [-\sqrt{2}, \sqrt{2}]$ (۱)

ب) $|x| - 9 \geq 0 \rightarrow |x| \geq 3 \Rightarrow \begin{cases} x \leq -3 \\ x \geq 3 \end{cases} \Rightarrow D_F = [-3, 3] \rightarrow D_f = (-\infty, -3] \cup [3, +\infty)$

ان) $D_F = \mathbb{R} - \{-3, 3\}$ (۲)

ب) $\begin{cases} x \geq 0 \\ x \neq 9 \end{cases} D_F = [0, 9) \cup (9, +\infty)$

ان) $\begin{cases} 2-|x| \geq 0 \rightarrow 2 \geq |x| \\ x \neq 2, -2 \end{cases} \rightarrow [-2, 2) \cup (-2, 2) \cup (2, 2] \cup (-2, -2]$ (۳) ۱
 $D_f = [-2, 2]$

ب) $\begin{cases} x-1 \geq 0 \rightarrow x \geq 1 \\ x \neq 1, -1 \end{cases} \rightarrow D_F = [1, 1) \cup (1, -1) \cup (-1, -\infty)$ (۴) ۲
 $D_f = [-1, 1] - \{\pm 1\}$

ان) $x+|x| > 0 \rightarrow x > -|x|$ $D_F = \mathbb{R}^+$ (۵)

ب) $x|x| > 0 \Rightarrow D_F = \mathbb{R}^+$

ان) $2-[x] \geq 0 \Rightarrow [x] \leq 2$ $D_F = (2, -\infty) \rightarrow D_f = (-\infty, 2)$ (۶) ۱۵

ب) $2-[x] > 0 \rightarrow 2 > [x]$ $D_F = (2, +\infty) \rightarrow D_f = (-\infty, 2)$

ان) ~~$x[x] > 0$~~ $x[x] \neq 0$ $D_F = (-\infty, 0) \cup [1, +\infty)$ (۷) ۱

ب) $-x[x] > 0$ $D_F = \mathbb{R}^+ [1, +\infty)$
علامت ان $D_f = \emptyset$

$$1) \left[n - \frac{1}{\sqrt{e}} \right] + \left[n + \frac{1}{\sqrt{e}} \right] \geq 0 \quad \left[\frac{1}{\sqrt{e}} + \frac{1}{\sqrt{e}} \right] + \left[n + \frac{1}{\sqrt{e}} \right] \geq -1$$

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$$\left[n + \frac{1}{\sqrt{e}} \right] \geq -\frac{1}{\sqrt{e}} \rightarrow n + \frac{1}{\sqrt{e}} \geq -1$$

$$D_f = \left[\frac{1}{\sqrt{e}}, +\infty \right) \quad \Leftrightarrow n \geq -\frac{1}{\sqrt{e}}$$

1

$$2) \left[n - \frac{1}{\sqrt{e}} \right] + \left[-n + \frac{1}{\sqrt{e}} \right] \geq 0$$

$$\Rightarrow \left[n - \frac{1}{\sqrt{e}} \right] + \left[n - \frac{1}{\sqrt{e}} \right] \leq 0$$

$$\Rightarrow 2 \left[n - \frac{1}{\sqrt{e}} \right] \leq 0$$

$$D_f = \left\{ n \mid n = k + \frac{1}{\sqrt{e}}, k \in \mathbb{Z} \right\}$$

$$D_f = \emptyset \quad \left(-\infty, \frac{1}{\sqrt{e}} \right]$$

1

$$1) \quad \left| \sin n - 1 \right| \neq 0 \rightarrow \sin n \neq \sqrt{\frac{1}{e}} \quad D_f = \mathbb{R} - \left\{ \frac{k\pi}{\sqrt{e}} + \frac{\pi}{\sqrt{e}} \right\}$$

1

$$2) \quad \begin{cases} \tan n \neq -1 \\ \cos n > 0 \end{cases}$$

$$D_f = \mathbb{R} - \left\{ \frac{k\pi}{\sqrt{e}}, k\pi - \frac{\pi}{\sqrt{e}} \right\}$$

1

$$1) \quad \sin n > \frac{1}{\sqrt{e}} \quad (2k\pi, 2k\pi + \pi) \quad D_f = \left[2k\pi + \frac{\pi}{4}, 2k\pi + \frac{3\pi}{4} \right]$$

$$\cos n < \frac{1}{\sqrt{e}} \quad \left[2k\pi + \frac{\pi}{\sqrt{e}}, 2k\pi + \frac{5\pi}{4} \right]$$

$$D_f = \left[2k\pi + \frac{\pi}{\sqrt{e}}, 2k\pi + \frac{5\pi}{4} \right]$$



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