

۹۲۵ آخرین

الف) $\frac{x+3}{(n+1)(2x^2+5x-3)} \rightarrow -3$
 $(n+1)(2x^2+5x-3) \sim 2x^2+5x-3=0$
 $\frac{-5 \pm \sqrt{25+24}}{4} \rightarrow \frac{1}{2}, -3$
 $D_f = \mathbb{R} - \{\frac{1}{2}, -3, 1\}$ پ

ب) $\frac{x+3}{(x+1)(2x^2+7x+4)} \rightarrow x^2+7x+4=0$
 $(n+1)(n+9) - \frac{4}{9} > -\frac{1}{2}$
 $D_f = \mathbb{R} - \{-1, -\frac{1}{4}, -3\}$

الف) $\frac{x+3}{(x-1)(x^2-x+1)}$ $D_f = \mathbb{R} - \{1\}$ پ

ب) $\frac{x+3}{(n-1)(x^2-x+1)} \geq 0 \rightarrow \frac{-3}{+4-\frac{1}{n+1}}$
 $D_f = (-\infty, -3] \cup (1, +\infty)$

if $x \geq 1$ $\frac{2}{x^2-5x+6-2x+5} \Rightarrow \frac{2}{x^2-7x+11} \cdot (n-4)(n-5)$

if $x < 1$ $\frac{4}{x^2+3x} \sim 0 > -3$ $D_f = \mathbb{R} - \{-3, 0, 2, 5\}$ پ

الف) $[x]-2 \geq 0$ $[m] \geq 2$ $x \leq -2$ پ

ب) $\frac{5x^2+4}{[m]^2-2[m]-3} \rightarrow 3 \leq x < 4$ $-1 \leq m < 0$
 $([m]-3)([m]+1)$
 $D_f = \mathbb{R} - \{[13, 14] \cup [-1, 0]\}$

الف) $\sqrt{[x+\frac{1}{4}-1]} + [m+\frac{1}{4}] \geq 0$ $[m+\frac{1}{4}] + [x+\frac{1}{4}] \geq 1$
 $D_f = \{\frac{1}{4}, \frac{5}{4}\}$ پ

ب) $\sqrt{[x-\frac{1}{4}]} + [-(x-\frac{1}{4})]$ $D_f = x - \frac{1}{4} \leq 2$
 $D_f = \{x | x = k + \frac{1}{4}, k \in \mathbb{Z}\}$

$$\frac{\cos x}{\sin x} + 1 \quad \sin x \neq 0 \quad \tan x \neq -1 \quad D_f = \{R - \left\{ \frac{\pi}{2}, \frac{3\pi}{2}, \frac{7\pi}{6} \right\}\} \quad \{K\pi + \frac{\pi}{6}\}$$

$$\frac{\sin x}{\cos x} \neq 1$$

ج) $1 - \sin^2 x > 0 \quad \sin^2 x < 1 \quad \sin^2 x \leq \frac{1}{4} \quad -\frac{1}{2} < \sin x \leq \frac{1}{2}$

$$D_f = \{[K\pi - \frac{\pi}{4}, K\pi + \frac{\pi}{4}]\}$$

الف) $\sqrt{\sin x - 1} \geq 0 \quad \sin x \geq \frac{1}{4} \quad D_f = [2K\pi + \frac{\pi}{4}, 2K\pi + \frac{5\pi}{4}]$

ج) $1 - 2\cos x \geq 0 \quad \frac{1}{2} \geq \cos x$

$$D_f = [2K\pi + \frac{\pi}{3}, 2K\pi + \frac{5\pi}{3}]$$

بنایه آخر بازه از اول بازه کوچک تر باشد

الف) $-1 \leq x^2 + 3x + 1 \leq 1$

یابن منفرد

$$x^2 + 3x \leq 0 \quad \frac{-3}{2} \leq x \leq 0 \quad [-\frac{3}{2}, 0]$$

$$x^2 + 3x + 2 \geq 0 \quad \frac{-3}{2} \leq x \leq -1 \quad (-\infty, -\frac{3}{2}] \cup [-1, +\infty)$$

ب) $0 \leq \sqrt{5-2x} \leq 1 \quad 0 \leq 5-2x \leq 1 \quad 2 \leq x \leq 3 \quad D_f = [2, 3]$

مسا ۲، ۴ در این نامسا داده نمیکنند!

بیبی

ب) $0 \leq \sqrt{5-2x} \leq 1 \quad 0 \leq 5-2x \leq 1 \quad 2 \leq x \leq 3 \quad D_f = [2, 3]$

الف) $1 - \log_x^x > 0 \quad 1 > \log_x^x \quad x < 3 \quad x > 0$

$$D_f = (0, 3)$$

ب) $1 - \log_x^x > 0 \quad 1 > \log_x^x \quad x > \frac{1}{3} \quad x > 0$

$$D_f = (\frac{1}{3}, +\infty)$$

الف) $2^x - x^2 \geq 2^3 \quad 2^x - x^2 \geq 8 \quad x^2 + 3 - 2^x \leq 0 \quad (n-1)(n-3)$

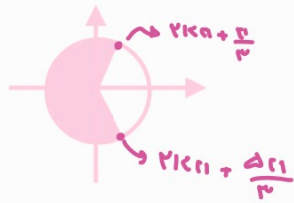
$$D_f = [1, 3]$$

ب) $\frac{2^x + 5}{2^x + 4} \in \mathbb{W}$

$n \in -\frac{5\mathbb{W} - 4}{2\mathbb{W} - 3} \quad D_f = \{x \mid x = \frac{-5K + 4}{2K - 3}, K \in \mathbb{W}\}$

ساختار بنی

$\text{ب-۷} \quad 1 - r \cos \theta \geq 0 \rightarrow \cos \theta \leq \frac{1}{r}$



$\rightarrow \text{Def} \left[r_k n + \frac{p}{r}, r_k n + \frac{p_r}{r} \right]$

$\text{ب-۸} \quad \sqrt{\omega - r n} \rightarrow \omega - r n \geq 0 \rightarrow n \leq \frac{\omega}{r}$

$\xrightarrow{\wedge} \text{Def} \left[r, \frac{\omega}{r} \right]$

$\underbrace{-1 \leq \sqrt{\omega - r n} \leq 1}_{\text{همواره برقرار است}} \rightarrow \omega - r n \leq 1 \rightarrow -r n \leq -\omega + 1 \rightarrow n \geq r$