

۱۹، ۲۵

یازدهم، سر ۸

عقار حقیقی

$$r(n-1) + (y+r) = 0 \quad ! \quad \dots \quad 1 \quad \dots \quad 2 \quad \dots \quad 1$$

$$r n^r - r n + r + y^r + y + q = 0 \quad k = r + q = 11$$

$$a^r + r a = r a + a + r \rightarrow a^r + a - r$$

غیر صفری

$$f(1) \rightarrow 1 + r = a$$

$$r n^r - b \stackrel{x=-r}{=} a + r n \Rightarrow 11 - b = a - r$$

$$11 + r = a + b \rightarrow a + b = 11$$

$$11 - a = 0 \Rightarrow a = 11 \quad \frac{b}{a} = \frac{r}{11} = \frac{1}{11}$$
$$b - r = 0 \Rightarrow b = r$$

آزمین

$$r = [n]$$

الف / و

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$$y = \sqrt{\frac{n+1}{|n-3|}} + \sqrt{\frac{4-n}{n^2+2n+1}} \Rightarrow n \leq 4$$

معدله مثبت يكون، $n \neq 3$ | معدله مثبت

$$n \geq -1$$

$$I \cap II \cap III = D_f = [-1, 4] - \{3\}$$

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$$[n] - r \geq \dots \Rightarrow [n] \geq r \Rightarrow n \geq r$$

$$r - [n] \geq \dots \Rightarrow [n] \leq r \Rightarrow \underline{(r, +\infty)}$$

$$D_f = \emptyset$$

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$$y = \sqrt{\frac{n^2 - n - 4}{n^2 - 11n^2 + 14}} \xrightarrow{n^2 = t} \sqrt{\frac{t^2 - t - 4}{t^2 - 11t + 14}} \Rightarrow \frac{(t-4)(t+1)}{(t-2)(t-7)}$$

$$+ \begin{cases} r \Rightarrow n^2 = r \\ 9 \Rightarrow n^2 = 9 \end{cases} \begin{cases} n = r \\ n = -r \end{cases}$$

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

$$D_f = (-\infty, -3) \cup (2, +\infty) - \{3\}$$

آمين

$$\frac{n^r - rn^r - \omega n + \zeta}{n^r - n^r} \mid \frac{n-1}{n^r - n - \zeta} \quad |.$$

$$\frac{-n^r - \omega n}{(n-r)(n+r)}$$

$$\frac{-n^r + n}{-}$$

$$- \zeta n + \zeta$$

$$- \zeta n + \zeta$$

$$\frac{n^r + rn^r - \omega n - \zeta}{n^r + n^r} \mid \frac{n+1}{n^r + n - \zeta}$$

$$\frac{n^r - \omega n}{(n+r)(n-r)}$$

$$n^r - \omega n$$

$$(n+r)(n-r)$$

$$\frac{-r \quad -r \quad -1 \quad 1 \quad r \quad r}{+ \quad - \quad + \quad - \quad + \quad -}$$

$$+ \quad - \quad + \quad - \quad + \quad -$$

$$n^r + n$$

$$- \zeta n - \zeta$$

$$- \zeta n - \zeta$$

$$D_f = (-\infty, -r) \cup [-r, -1) \cup [1, r) \cup [r, +\infty) \checkmark$$

$$[-n] - r \geq \cdot \Rightarrow [-n] \geq r \quad n \ll (-\infty, -1) \checkmark$$

$$D_f = (-\infty, -r] \checkmark$$

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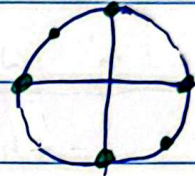
$$[n]^r - r[n] - r \neq \cdot \rightarrow n < \begin{matrix} -1 \\ r \end{matrix}$$

$$D_f = \mathbb{R} - \left([-1, 0) \cup [r, r) \right) \checkmark$$

آذین

$$y = \frac{\cos x + 1}{\sin x} \Rightarrow \sin x \neq 0, \cos x \neq 1, \tan x \neq 1$$

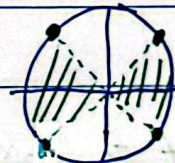
(1, 1, 1)



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

$$1 - \sqrt[n]{\sin x} \geq 0 \Rightarrow 1 \geq \sqrt[n]{\sin x} \Rightarrow \frac{1}{n} \geq \sin x$$

$$-\frac{1}{n} \leq \sin x \leq \frac{1}{n} \quad D_f = \left[k\pi - \frac{\pi}{2}, k\pi + \frac{\pi}{2} \right]$$



$$n-1 > 0 \Rightarrow n > 1$$

$$1 - \log_{\frac{1}{n}}^{n-1} \geq 0 \Rightarrow \log_{\frac{1}{n}}^{n-1} \geq 1 \Rightarrow n-1 \geq \frac{1}{n}$$

$$n \geq \frac{1}{n} \quad D_f = \mathbb{I} \cap \mathbb{I} = \left(\frac{1}{n} + \infty \right)$$

آزیر

$$\therefore \frac{\sqrt{n^r - n}}{1 - \log_r^{n^r - n}} \rightarrow n(n-1) \quad \begin{array}{c} \cdot \quad 1 \\ + \quad - \quad + \\ \hline \end{array} \quad (-9)$$

$$n^r - n > \cdot \quad n(n-1) > \cdot$$

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

$$\log_r^{n^r - n} \neq 1$$

$$n^r - n \neq r \Rightarrow n^r - n - r \neq 0$$

$$n < \frac{1}{r}$$

$$D_f = (-\infty, 0) \cup (r, +\infty) = \left\{ -\frac{1}{r} \right\} \cup \left\{ r \right\}$$

$$r_{m-n}^r$$

$$\geq 1$$

$$\Rightarrow$$

$$r_{n-n}^r$$

$$\geq r$$

$$\Rightarrow -n^r + r_{n-n}^r \geq$$

$$n^r - r_{n-n}^r \geq r$$

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

$$\begin{array}{c} 1 \\ \swarrow \quad \searrow \\ n \quad -r \\ + \quad - \end{array}$$

$$[1, r]$$

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

$$\frac{r_{n+\omega}}{r_{n+r}}$$

$$\in W$$

$$\frac{r_{W-\omega}}{r_{W-r}}$$

$$\left\{ n \mid n = \frac{r_{k-\omega}}{r_{k-r}}, k \in W \right\} \checkmark$$

آذینہ