

کتابت ۳ باغ کتب ۲۰ کاره دفتر B

الف) $\frac{n+2}{2n^2+2n^2-1n+2} \rightarrow \frac{n+2}{(n-1)(n+\frac{1}{2})(n+2)}$ $Df = R_1 - \{-2, +\frac{1}{2}\}$ (1)

ب) $\frac{n+2}{2n^2+4n^2+1n+2} \rightarrow \frac{n+2}{(n+1)(n+2)(n+\frac{1}{2})}$ $Df = R_1 - \{-2, -1, -\frac{1}{2}\}$ (5)

الف) $\frac{n+2}{n^2-2n^2+2n-1} \rightarrow \frac{n+2}{(n-1)(n^2-n+1)}$ $Df = R_1 - \{1\}$

ب) $\sqrt{\frac{n+2}{n^2-2n^2+2n-1}}$ $\frac{n+2}{(n-1)(n^2-n+1)} \geq 0$ $Df = (-\infty, -2] \cup (1, +\infty)$ (2)

$y = \frac{2}{n^2-2n-1-2n+2}$ $n^2-2n+1 = 2(n-1)+1$ $(n-1)^2 - 2(n-1) + 1 = 0$ $|n-1|=t$ $t^2-2t+1=0$ $(t-1)(t-1)=0$ $|n-1|=1$ $|n-1|=2$ $n=0$ $n=-2$ $Df = R_1 - \{-2, 0, 2, \infty\}$ (3)

الف) $y = \frac{n+2}{|2n+1|-|n+2|}$ $\Rightarrow |n+2| \neq |2n+1|$ $n^2+4n+4 \neq 4n^2+4n+1$ $0 \neq 3n^2-2n-1$ $n \neq 2, n \neq -\frac{1}{3}$ $Df = R_1 - \{2, -\frac{1}{3}\}$ (4)

ب) $y = \sqrt{|2n+1|-|n+2|}$ $|2n+1|-|n+2| \geq 0$ $|2n+1| \geq |n+2|$

$Df = (-\infty, -\frac{1}{3}] \cup [2, +\infty)$ $4n^2+4n+1 \geq n^2+4n+4$ $3n^2-2n-1 \geq 0$

$n=2$ $n=-\frac{1}{3}$ $+\frac{1}{3} \quad - \quad +$

$$i) y = \log_r (1 - \log_r^n)^{m \cdot r} \quad 1 - \log_r^n > 0 \quad (0, r) \\ 1 > \log_r^n \quad ①, ②, 5$$

$$ii) \log_r (1 - \log_r^n)^{m \cdot r} \quad ① \\ 1 - \log_r^n > 0 \\ 1 > \log_r^n \\ \frac{1}{r} < n \quad ①$$

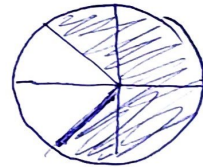
(5) $(\frac{1}{r}, +\infty)$
①, ②

$$\sqrt{\log_{a,w} \log_a^{(r-1)}} \quad r-1 > 0 \quad \log_a^{(r-1)} > 0 \quad \log_{a,w} \log_a^{(r-1)} \geq 0 \quad ⑥ \\ n > \frac{1}{r} \quad r-1 > 1 \quad \log_a^{(r-1)} \leq 1 \\ ① \quad n > 1 \quad r-1 \leq a \\ ① \quad r-1 \leq r \quad n > r$$

(5)

①, ②, ④ = (1, r]

$$i) \log(r \cos n + 1) \quad r \cos n + 1 > 0 \quad \cos n > -\frac{1}{r} \quad ② \\ Df = (r\pi - \frac{r\pi}{r}, r\pi + \frac{r\pi}{r})$$



$$ii) \sqrt{\log \frac{n-1}{n+1}} \quad \frac{n-1}{n+1} > 0 \quad \frac{-1}{\frac{1}{2} - \frac{1}{2}} + \quad (5) \quad (-\infty, -1) \cup (1, +\infty) \\ Df = (-\infty, -1) \quad \log \frac{n-1}{n+1} > 0 \quad \frac{n-1}{n+1} > 1 \quad \frac{n-1-n+1}{n+1} > 0 \quad \frac{-r}{n+1} \geq 0 \\ (-\infty, -1) \quad \frac{-1}{\frac{1}{2} - \frac{1}{2}}$$

$$\sqrt{(a+r)n^r + an + b} \rightarrow \frac{a}{n^r} + \frac{r}{n} + \frac{b}{n^r} \rightarrow a+r=0 \rightarrow -r n + b \geq 0 \quad ① \\ a = -r \quad -r + b \geq 0 \quad n=r \\ \underline{b = r} \quad (5)$$

$$\sqrt{n^r + r n + r - m^r} \rightarrow R \sim O_p \rightarrow f - f(r-m^r) \rightarrow m^r - r \leq 0 \quad \frac{-1}{\frac{1}{2} - \frac{1}{2}} + \quad ⑨ \\ \Delta \leq 0 \quad m \in [-1, 1] \\ 1 - (-1) = 2$$

(5)

$$f(n) = \frac{\sqrt{4-n^2}}{[n] + [-n] + 1}$$

$$Pf = \{-2, -1, 0, 1, 2\}$$



$$4-n^2 \geq 0 \quad n^2 \leq 4 \quad -2 \leq n \leq 2$$

$$[n] + [-n] + 1 \neq 0$$

$$[n] + [-n] \neq -1 \quad \begin{matrix} \swarrow \text{قبل} \rightarrow n \in \mathbb{Z} \\ \searrow \text{بعد} \rightarrow n \notin \mathbb{Z} \end{matrix}$$

دائرة

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