

کاره دفتر B

باغ کتیف ۳

کتابخانه

الف) $\frac{n+1}{2n^2+3n-1} \rightarrow \frac{n+1}{(n-1)(n+\frac{1}{2})(n+2)}$ $Df = R_1 - \{-2, -\frac{1}{2}, 1\}$ (1)

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

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

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

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

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

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

$\frac{-\frac{1}{3}}{+} \quad \frac{1}{-} \quad +$

$$i) y = \log_r (1 - \log_r^n)^{nr} \quad 1 - \log_r^n > 0$$

$$1 > \log_r^n$$

$$r > n \quad (1)$$

$$(\frac{1}{r}, r)$$

$$(1, \infty)$$

$$ii) \log_r (1 - \log_r^n)^{\frac{nr}{r}}$$

$$1 - \log_r^n > 0$$

$$1 > \log_r^n$$

$$\frac{1}{r} < n \quad (2)$$

$$(\frac{1}{r}, +\infty)$$

$$(1, \infty)$$

$$\sqrt{\log_{a,w} \log_a^{(r-1)}}$$

$$r-1 > 0$$

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

$$(1)$$

$$\log_a^{(r-1)} > 0$$

$$r-1 > 1$$

$$n > 1$$

$$(2)$$

$$\log_{a,w} \log_a^{(r-1)} \geq 0$$

$$\log_a^{(r-1)} \leq 1$$

$$r-1 \leq \omega$$

$$r \leq r$$

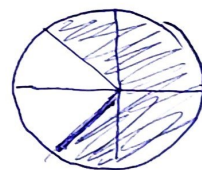
$$n \leq r \quad (3)$$

$$(1, \infty) \cap (1, \infty) = (1, \infty)$$

$$ii) \log(r \cos n + 1)$$

$$r \cos n + 1 > 0 \quad \cos n > -\frac{1}{r}$$

$$Df = (r\pi - \frac{r\pi}{r}, r\pi + \frac{r\pi}{r})$$



$$ii) \sqrt{\log \frac{n-1}{n+1}}$$

$$\frac{n-1}{n+1} > 0$$

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

$$(-\infty, -1) \cup (1, +\infty)$$

$$Df = (-\infty, -1)$$

$$\log \frac{n-1}{n+1} \geq 0$$

$$\frac{n-1}{n+1} \geq 1$$

$$\frac{n-1-n+1}{n+1} \geq 0$$

$$\frac{-r}{n+1} \geq 0$$

$$(-\infty, -1) \quad +\frac{1}{1} - \frac{1}{1} +$$

$$\sqrt{(a+r)n^r + an + b}$$

$$\frac{a}{n^r} + \frac{b}{n^r} \rightarrow$$

$$a+r=0$$

$$a=-r$$

$$\rightarrow -r + b \geq 0$$

$$-r + b \geq 0 \quad n=r$$

$$b = r$$

$$\sqrt{n^r + rn + r - n^r}$$

$$R \sim \text{COP}$$

$$\Delta \leq 0$$

$$f - f(r-m^r) \rightarrow m^r - \epsilon \leq 0$$

$$m \in [-1, 1]$$

$$1 - (-1) = 2$$

$$(9)$$

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

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

$$\varepsilon - n^2 \geq 0 \quad n^2 < \varepsilon \quad -2 \leq n \leq 2$$

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

$$[n] + [-n] \neq -1 \quad \begin{array}{l} \nearrow \text{قبل } n \in \mathbb{Z} \\ \searrow \text{بعد } n \notin \mathbb{Z} \end{array}$$

دائرة