

$$a-2=0 \rightarrow a=2$$

$$\sqrt{2m+b} \quad \sqrt{\quad} = m = 3$$

$$4+b=0 \rightarrow b=-4$$

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$$\Delta \leq 0 \rightarrow 4-8+4m^2 \rightarrow -4+4m^2 \leq 0$$

$$-4(1-m^2) \leq 0$$

$$\frac{-1}{+4} - \frac{1}{+}$$

$$[-1, 1] \quad \text{مضروب} \quad \text{پ}$$

۲

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

$$[m] + [-m] \neq 1 \rightarrow \text{if } m \in \mathbb{Z}$$

$$-2, -1, 0, 1, 2 \rightarrow \text{مجموعه}$$

۳

$$\text{الف) } m^3 + 2m^2 \geq 0 \quad m^2(m+2) \geq 0 \quad \frac{m}{-1+1+} \quad Df = [-2, +\infty)$$

$$\text{ب) } \frac{(m-1)(m+1)(m-2)m^2}{m^3-1}$$

$$Df = (-\infty, -1] \cup [2, +\infty) \cup \{0\}$$

به ازای ۰ عبارت برابر ۰ می شود پس در دامنه است!

۱۶۵

$$\text{الف) } |m-2|-3 \geq 0 \quad |m-2| \geq 3 \rightarrow m-2 \geq 3 \quad m \geq 5$$

$$Df = (-\infty, -1] \cup [5, +\infty)$$

$$\text{ب) } 4 - |2-m| \geq 0 \quad 4 \geq |2-m| \quad -4 \leq 2-m \leq 4 \quad -6 \leq -m \leq 2$$

$$Df = [-2, 4]$$

۵

الف) $1 - n n \geq 0 \quad (n \geq 1) \begin{cases} n < 0 \rightarrow 1 \geq -n^r \\ n > 0 \rightarrow 1 \geq n^r \end{cases} \rightarrow -1 \leq n \leq 1$ $D_f = (-\infty, 1]$ Ⓟ ب) $3 - n - \omega \geq 0 \rightarrow 3 \geq n - \omega \quad \begin{matrix} n - \omega \leq 3, & n - \omega \geq -3 \\ n \leq 4, & n \geq -2 \end{matrix}$ $\sqrt{3 - n - \omega } \neq 1 \rightarrow n \neq 4, 2$ Ⓟ $D_f = [\cancel{2}, \cancel{4}] - \{2, 4\}$	6
الف) $\cos n \neq 0 \rightarrow D_f = \mathbb{R} - \{k\pi + \frac{\pi}{2}\}$ Ⓟ ب) $2\cos n - 1 \neq 0 \rightarrow \cos n \neq \frac{1}{2} \quad D_f = \mathbb{R} - \{2k\pi + \frac{\pi}{3}, 2k\pi - \frac{\pi}{3}\}$ Ⓟ	7
الف) $2n+1 - n+3 = 0 \rightarrow 2n+1 = n+3$ $4n^r + 4n + 1 = n^r + 9 + 6n \rightarrow 3n^r - 2n - 8 = 0 \rightarrow n^r - 2n - 28 = 0$ $(n-4)(n+8) = 0 \rightarrow n = 4, -8$ $D_f = \mathbb{R} - \{4, -8\}$ Ⓟ ب) $2n+1 \geq n+3 \rightarrow 4n^r + 4n + 1 \geq n^r + 9 + 6n$ $3n^r - 2n - 8 \geq 0 \quad \begin{matrix} -\frac{8}{3} & r \\ +b & -b+ \end{matrix} \quad D_f = (-\infty, \frac{8}{3}] \cup [2, +\infty)$ Ⓟ	8
$2n-1 > 0 \rightarrow 2n > 1 \rightarrow n > \frac{1}{2}$ $\log_{\omega}^{2n-1} > 0 \quad 2n-1 > 1 \rightarrow n > 1$ $\log_{\log_{\omega}^{2n-1}} \log_{\omega}^{2n-1} \geq 0 \rightarrow \log_{\omega}^{2n-1} \leq 1 \rightarrow 2n-1 \leq \omega \rightarrow 2n \leq 6 \rightarrow n \leq 3$ $D_f = (1, 3]$ Ⓟ	9
الف) $(2\cos n + 1) > 0 \rightarrow \cos n > -\frac{1}{2} \quad D_f = \mathbb{R} - \{2k\pi - \frac{2\pi}{3}, 2k\pi + \frac{2\pi}{3}\}$ Ⓟ ب) $\frac{n-1}{n+1} > 0 \quad \frac{-1}{+\frac{1}{2}-\frac{1}{2}+} (I)$ $\log \frac{n-1}{n+1} \geq 0 \quad \frac{n-1}{n+1} \geq 1 \rightarrow \frac{n-1-n-1}{n+1} \geq 0 \rightarrow n+1 \leq 0$ $D_f = (-\infty, -1)$ Ⓟ Ⓟ $n \leq -1 (II)$	10

$$جـ - ك) \frac{(n^2-1)(n^2-n^2)}{(n^2-1)} \geq 0 \rightarrow \frac{(n-1)(n+1)(n^2)(n-1)}{(n-1)(n^2+n+1)} \geq 0$$

$$D_f = (-\infty, -1] \cup \{0\} \cup [3, +\infty)$$

مشتق من n^2+n+1

