



ا) $\frac{(n-1)(n+1)}{n^2} \geq 0$ $\frac{(n-1)(n+1)}{(n-1)(n+1)} \geq \frac{(n-1)(n+1)}{(n-1)(n+1)}$ $\frac{-1}{-1} \geq \frac{1}{1}$ $\frac{+}{+} - \frac{-}{-} - \frac{+}{+} + \frac{-}{-} +$ $D_f = (-\infty, -1) \cup (1, +\infty) - \{1\}$	ب) $\frac{(n-1)(n^2+n-4)}{(n+1)(n^2+n-4)} \geq 0$ $\frac{-1}{-1} \geq \frac{1}{1}$ $\frac{+}{+} - \frac{-}{-} - \frac{+}{+} + \frac{-}{-} +$ $D_f = (-\infty, -1) \cup (-1, 1) \cup (1, +\infty)$
ا) $y = \sqrt{[-n] - 1}$ $[-n] \geq 1$ $D_f = (-\infty, -1]$	ب) $\frac{-1}{-1} \geq \frac{1}{1}$ $\frac{+}{+} - \frac{-}{-} - \frac{+}{+} + \frac{-}{-} +$ $D_f = (-\infty, -1) \cup [0, 1) \cup [5, +\infty)$
ا) $\frac{\cos n - \sin n}{\sin n - \cos n} = 1$ $\cos n \neq 0, \sin n \neq 0, \tan n \neq 1$ $D_f = \mathbb{R} - \{k\pi, k\pi + \frac{\pi}{2}, k\pi + \frac{3\pi}{2}\}$	ب) $1 - \sin n \geq 0$ $\sin n \leq 1$ $\sin n \leq \frac{1}{2}$ $D_f = [k\pi + \frac{3\pi}{4}, k\pi + \frac{7\pi}{4}]$
ا) $1 - \log_{\frac{1}{4}}^{n-1} \geq 0$ $\log_{\frac{1}{4}}^{n-1} \leq 1$ $n-1 \leq \frac{1}{4}$ $n \leq \frac{5}{4}$ $D_f = (-\infty, \frac{5}{4}]$	ب) $y = \frac{\sqrt{n-n}}{1 - \log_{\frac{1}{4}}^{n-n}}$ $n^2 - n \geq 0 \Rightarrow n(n-1) \geq 0 \Rightarrow D_f = (-\infty, -1) \cup (1, +\infty)$ $\frac{+}{+} - \frac{-}{-} - \frac{+}{+} + \frac{-}{-} +$ $\log_{\frac{1}{4}}^{n-n} \leq 1$ $n^2 - n \leq 1 \Rightarrow n^2 - n - 1 \leq 0$ $D_f = \{n \mid n = \frac{-1 \pm \sqrt{5}}{2}, n \in \mathbb{Z}\}$
ا) $r^{n-n^2} \geq A, r$ $n - n^2 \geq 0$ $-n^2 + n - 0 \geq 0$ $n^2 - n + 0 \leq 0$ $(n-1)(n-0)$ $D_f = [1, 0]$	ب) $\frac{r^{n+0}}{r^{n+0}} \in \mathbb{W}$ $D_f = \{n \mid n = \frac{-rk + 0}{rk - r}, k \in \mathbb{W}\}$