

الف) $\sqrt{(n-2)(n-2)} \sim [n]-2$ $\frac{2}{0} + \frac{2}{0} + \frac{2}{0}$ $D_f = \mathbb{R}$

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$\therefore y = \sqrt{(n-1)(n-1)} \sim [n]-1$ $\frac{2}{0} + \frac{2}{0} + \frac{2}{0}$ $D_f = [c, +\infty) \cup \{1\}$

$|n-2|-1 \neq k$

$\left[\begin{smallmatrix} 1 \\ 1 \\ 1 \end{smallmatrix} \right] = \checkmark \leadsto (k, 0)$

$|n-2|-1 = k \leadsto n = 2 \pm (k+1) \rightarrow$ (وصلا)

$|n-2|-1 = -k \rightarrow$ الزبأ $\leadsto \frac{1}{0} = (-k+1) \cdot -k+1 \cdot \boxed{k=1}$

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$f(n) = \frac{n^2 + 2n + 2}{n^2 + 2n + 2} \leadsto -1, -2, (n+1)(n+2)$
 $\left(\frac{n+1}{n-1} \right) \leadsto -1 \leadsto -2, -1, 1 \quad \boxed{n=3}$

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$q = n^2 - 4n + 4 = (n-2)^2$ مربع كامل

$q = \log \log 2n^{\frac{1}{2}}$

$\boxed{n > 0}$
 $\boxed{n \neq 1}$
 $n+1 > 0$
 $n+1 \neq 0$
 $\boxed{n \neq -2}$

$\log n^{\frac{1}{2}} > 0 \rightarrow \frac{1}{2} < 1 \checkmark$ $\frac{1}{2} > 1 \times$ $\log > 0$

$D_f = (0, 1)$

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$-8 \leq n \leq 2$

$-8 \leq n^2 - 1 \leq 2$

$-8 \leq n^2 \leq 2$

$\frac{1}{\sqrt{2}} \leq n \leq \frac{1}{\sqrt{2}}$

$D_f = \left[-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2} \right]$

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