

الف) $D=R$

$n-2 \leq n \leq 5$
 $[n-2] \leq n \in [5, 5]$

ب) $[n-2] \leq n \Rightarrow n \geq 2$
 $n-1 \leq n \Rightarrow n \geq 1$
 $\cup \{1\} \cup [2, +\infty)$

$||n-1|-1|-k \neq 0 \Rightarrow |n-1|-1 \neq k \Rightarrow \begin{cases} k+1 \leq n-1 \\ -k-1 \leq n-1 \end{cases} \quad P, n$
 $|n-1|-1 = k \Rightarrow \begin{cases} 1-k \leq n-1 \\ k-1 \leq n-1 \end{cases} \quad P, n$
 $\Rightarrow ||n-1|-1|-k \leq 0 \Rightarrow |1-1|-1-k \leq 0 \Rightarrow k=1$



$n \neq 1-1-1-1 \Rightarrow n \leq 3$

$\Rightarrow n^2 - 4n + 4 \Rightarrow (n-2)^2 \Rightarrow n \leq 3$ یک رابطه میبایست

$n+1 > 0 \Rightarrow n > -1$

$n > 0$

$n+1 \neq 1 \Rightarrow n \neq 0$

$n \neq 1$

$\Rightarrow (1, 1)$

$|y| > 1 \Rightarrow n < \frac{1}{2} \rightarrow 1 < \frac{1}{2} \Rightarrow (1, 1)$

$P \in [-\omega, \omega] \Rightarrow -\omega \leq \sqrt{n^2-1} \leq \omega \Rightarrow \sqrt{n^2-1} \geq -\omega$

$\sqrt{n^2-1} \leq \omega \Rightarrow n^2 \leq \frac{\omega^2}{p} \Rightarrow \frac{-\sqrt{\omega^2}}{p} \leq n \leq \frac{\sqrt{\omega^2}}{p}$

$\Rightarrow P, \left[\frac{-\sqrt{\omega^2}}{p}, \frac{\sqrt{\omega^2}}{p} \right]$