

$n = \begin{cases} y-1 & y \geq 0 \rightarrow n = y-1 \rightarrow y = \frac{n+1}{1} \rightarrow \frac{1}{1}, \frac{1}{2}, \frac{1}{3}, \dots \end{cases}$

$-y^r > 1 \rightarrow n = -y^r \rightarrow y = \sqrt[n]{-n} \rightarrow$

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

$y = \pm \sqrt[n]{-n}$
 $y > 1 \rightarrow n < -1$

$\left(\begin{array}{l} \text{نقطه‌های} \\ \text{محدوده} \end{array} \right) = \text{محدوده}$

$g(n) = \sqrt{\frac{n(n-1)}{f(n)}} \rightarrow n \geq 0 \rightarrow f(n-1) = \sqrt[n]{n-1}$

فقط خطوط باشد نه $n=4$ در دایره است و
 $n=4$ در دایره $(n-1)$ نیست نه باز به دست آمده نیست

$\rightarrow f(n) \rightarrow \omega, \omega, \omega \rightarrow$
 $\rightarrow P_f = (-4, -2] \cup [0, 2] \cup [4, +\infty)$

$f(n) = \frac{n^r - n^{r+1}}{n^r - \varepsilon n} \rightarrow R = \{r, -r, 3\} \rightarrow 2(n^r - \varepsilon) \neq 0$

$n^r - \varepsilon n \rightarrow \Delta < 0 \rightarrow$

$\rightarrow \frac{-r}{-1} + \frac{r}{-1} \rightarrow (-r, 0) \cup (r, +\infty)$

$g(n) = \sqrt{\frac{n-1}{n^2 - n^r - 1}} \rightarrow \geq 0$

$n^r = t \rightarrow n^r = -r \rightarrow$
 $(t-1)(t+1) \rightarrow R = \{r, -r\}$
 $P_f = (-r, r) \cup (r, +\infty)$

$f(n) = \sqrt{n(n-1)} \rightarrow \geq 0 \rightarrow \frac{-1}{-1} + \frac{1}{-1} \rightarrow$

$\sqrt{|n|+n} \rightarrow \geq 0 \rightarrow$
 $P_f = [1, +\infty)$

$g(n) = \sqrt{(n-1)(n-2)}$

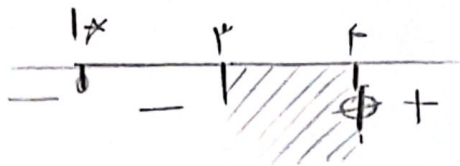
$P_f = [2, 1]$

$$x - 2[-n] \neq 0 \rightarrow [-n] \neq 2 \rightarrow D_f = \mathbb{R} - (-2, -2]$$

(ب. ۴)

$$y = \sqrt{|n-1|} [n-3]$$

میانگین
لاصف



$$[n-3]=0 \rightarrow [n]=3 \rightarrow 2 \leq n < 4$$

$$D_f \rightarrow [3, +\infty) \cup \{1\} \checkmark$$

سوال ۴ قسمت ۳

سوال ۷: u و v عددهای صحیح مثبت باشند، $u+v=10$

$$||n-2|-1|-k \neq 0 \rightarrow ||n-2|-1| \neq k$$

$$|n-2|-1 > 0 \rightarrow |n-2|-1 = k$$

$$|n-2| > 1 \rightarrow n > 3 \rightarrow n-2 = k \rightarrow k+2$$

$$|n-2| \leq 1 \rightarrow n \leq 3 \rightarrow -n+2 = k \rightarrow 2-k$$

$$|n-2|-1 \leq 0 \rightarrow -|n-2|+1 = k$$

$$n-2+1 = k \rightarrow 1-k$$

$$\frac{n^2+n+1}{n^2+n+1} \rightarrow \neq 0$$

$$\frac{n+1}{n-1} \rightarrow \neq 0 \rightarrow (-1)$$

$$\frac{n+1}{n-1} \rightarrow \neq 0 \rightarrow (1)$$

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$$k=1$$

$$1+k=3-k \rightarrow k=1 \checkmark$$

$$n^2-4n+9 \rightarrow (n-2)^2 = 5 \checkmark$$

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