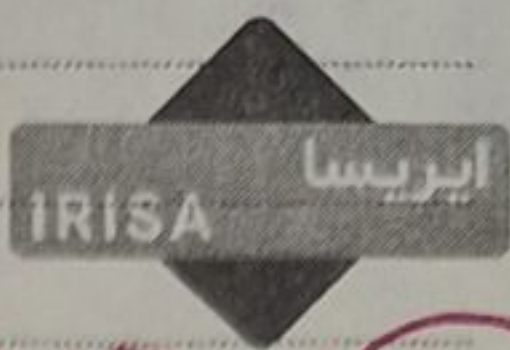


۱۹،۷۵

امیرکاسف

یادداشت

Date: ۱
Ref No:
Subject:



(الف) $y_1^r - r y_2^r = r y_{n-1}^r$ ✓

تابع است

(۱)

$y_1^r = r y_2^r + r y_{n-1}^r \rightarrow y_1^r = y_2^r$
 $y_2^r = r y_3^r + r y_{n-1}^r$

تکمیل نابو

(۲)

$u \cos y = y \cos x \xrightarrow{u = \frac{x}{r}} \frac{x}{r} \cos y = 0$

$\rightarrow y = k\pi + \frac{\pi}{r} | k \in \mathbb{Z}$

تابع نیست ✓

(۱) $\frac{u+y}{r} = \sqrt{ny} \quad u, y > 0 \Rightarrow u+y = r\sqrt{ny} \Rightarrow u+y - r\sqrt{ny} = 0$

$\rightarrow (\sqrt{u} - \sqrt{y})^2 = 0 \Rightarrow u = y$

تابع است ✓

(د) $ny^r + r y_{n-1}^r - y^r - r y = 0 \Rightarrow n(y^r + r) = y^r + r y \Rightarrow$

$n(y^r + r) = y(y^r + r) \Rightarrow n = y$ ✓ تابع است ✓

(۲)

$f(n) = \begin{cases} r n^r - b & ; |n-1| \geq r \\ a + r n & ; -r \leq n \leq -1 \end{cases} \rightarrow n \geq r \cup n \leq -1$

(۳)

$n = -1 \rightarrow r - b = -1 + a \Rightarrow a + b = r$ ✓

$f(n) = \sqrt{a - b n - n^r} \quad \text{و} \quad f = [b, a]$

$\frac{-1}{b} \quad a \quad \frac{0}{a}$

(۴)

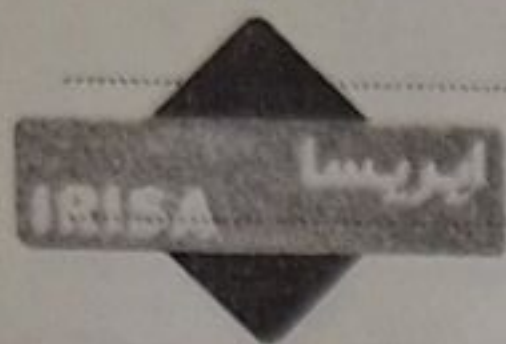
$f(n) = \sqrt{(-n+b)(n-a)} \Rightarrow (-n+b)(n-a) = -n^2 - b n + a$

$\Rightarrow -n^2 - a b + (b+a)n = -n^2 - b n + a$
 $\rightarrow a + b = -b \rightarrow a = -2b$
 $\rightarrow -a b = a \Rightarrow b = -1$

$a + b = 1$ ✓

$$g = \frac{r}{\sqrt{an^2 + bn + c}} \quad \text{Def } (-\infty, r)$$

(2) (4)



$$g = \frac{r}{\sqrt{bn + c}} \quad n \rightarrow \infty \Rightarrow r \sqrt{b+c} > 0$$

از دامنه می فرستد $a > 0$

Date

Ref

Subject

$$ra + c - |b| = 0 \quad \& \quad ca^2b = \text{b} \checkmark$$

$$(الف) f(n) = \sqrt{\frac{1}{|n| - [n]}} \Rightarrow |n| - [n] \neq 0$$

(5)

(2)

$$u = R - \frac{1}{2} \Rightarrow \text{Def } R - \frac{1}{2} \checkmark$$

$$ب) f(n) = \sqrt{n} \text{ or } \sqrt{y} = 1$$

$$n > 0 \Rightarrow \sqrt{y} = 1 - \sqrt{n} \Rightarrow 1 - \sqrt{n} > 0 \Rightarrow 1 > \sqrt{n} \Rightarrow |n| > n \Rightarrow \text{Def } [0, 1] \checkmark$$

$$(الف) \frac{1}{n-1} > 0 \Rightarrow n > \frac{1}{0}, n \neq 1, \frac{1}{n-1} > 0 \Rightarrow \frac{1}{n-1} > 0 \Rightarrow n > 1 \Rightarrow \text{Def } \left[\frac{1}{0}, +\infty\right) - \{1\}$$

(1, 1.78)

$$ب) \frac{1}{9\sqrt{n} - |n|} > 0 \Rightarrow \sqrt{|n|} = 1 \Rightarrow \frac{1}{-1+4} > 0$$

$$\begin{cases} \sqrt{n} = 1 \Rightarrow |n| < 9 \Rightarrow n < 9 \\ \sqrt{n} = -1 \times \end{cases} \Rightarrow \text{Def } (-9, 9) \checkmark$$

ریشه های معادله است
آب بستنی ادویه

$$\frac{(n+a)n + r + ab}{n+ab} > 0 \Rightarrow R = -M$$

(1)

(2)

$$b = -2$$

$$f(n) = \begin{cases} \sqrt{n-1} & n \geq 1 \\ \sqrt{n} & n < 0 \end{cases}$$

$$\sqrt{n+3} \Rightarrow n \geq -\frac{3}{c}$$

$$0 \in \left[-\frac{3}{c}, +\infty\right) \quad \checkmark$$

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

$$= \frac{\sqrt{n+1} - \sqrt{n}}{1} = \frac{1}{\sqrt{n+1} + \sqrt{n}}$$

$$\frac{1}{\sqrt{n+1} + \sqrt{n}}$$

$$m-a > 0 \Rightarrow m > a \Rightarrow n > \frac{a}{r} \quad (1)$$

$$1 - \frac{1}{r} m - a \geq 0 \Rightarrow 1 \geq \frac{1}{r} m - a \Rightarrow 1 + a \geq \frac{1}{r} m \Rightarrow m \leq r(a+1) \quad (2)$$

$$(1), (2) \Rightarrow \frac{a}{r} < m \leq \frac{a}{c} + d \Rightarrow b = \frac{a}{r} \Rightarrow c = \frac{a}{c} + d \Rightarrow \frac{a}{r} + d = \frac{a}{c} + d \Rightarrow d = c - b \quad \checkmark$$