

بہ نام خدا
پہلے آفرین عالی نوشتی

غلام حکیم البی
تکلیف
یازدعمہ

$$a - r = 0 \Rightarrow a = r \quad (1)$$

$$y = \sqrt{rx + b} \quad rx + b \geq 0 \xrightarrow{\substack{1. \text{ if } x=r \\ y=0}} r + b = 0 \Rightarrow b = -r$$

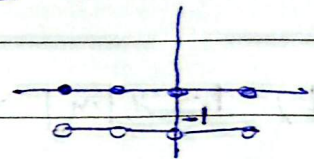
$$1 - r(1 - m^2) < 0 \Rightarrow 1 - r + m^2 r < 0 \Rightarrow m^2 < 1 \Rightarrow$$

$$1 - (-1) = 2 \quad -1 < m < 1$$

$$r - m^2 \geq 0 \Rightarrow -r \leq m^2 \leq r$$

$$[x] + [-x] + 1 \neq 0 \Rightarrow [x] + [-x] \neq -1 \Rightarrow$$

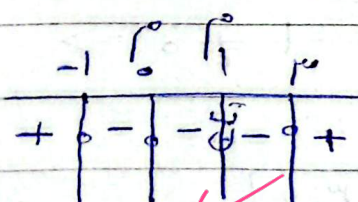
$$[-2, -1) \cup (0, 1] \rightarrow x \in \mathbb{Z}$$



$$x^r (x + 1) \geq 0 \Rightarrow \begin{matrix} -r & 0 \\ - & + & + \end{matrix}$$

$$D_f = [-r, +\infty)$$

$$\frac{(x^r - 1)(x^r - 1^r m^2)}{x^r - 1} \geq 0 \quad x^r (x - 1) = 0$$



$$D_f = (-\infty, -1] \cup \{0\} \cup [r, +\infty)$$

(c)

~~2020-2021~~

$$x-1 \leq -1 \Rightarrow x \leq -1$$

$$D_F = (-\infty, -1] \cup [1, +\infty)$$

$$\text{ii) } x - |x - \alpha| \geq 0 \Rightarrow |x - \alpha| \leq x \Rightarrow$$

$$-155 - n \text{ Kt} \Rightarrow -45 - n \text{ Kt}$$

$$D_f = [-1, 4] \quad \Rightarrow -1 \leq x \leq 4$$

[illegible]

الف) $1 - x|n| \geq 0$ $\ominus$ ✓ ④

① ✓

④



$$\rightarrow 1 - n^2 \gg 0 \Rightarrow -1 \ll n \ll 1$$

$$\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d}{dt} \right) \rightarrow 0.5 \frac{d}{dt}$$

$$\Rightarrow D_f = (-\infty, 1]$$

ii) $1 - |n - a| \geq 0 \Rightarrow -1 \leq x - a \leq 1 \Rightarrow 0 \leq x \leq 1$

$$\sqrt{|n-d|} - 1 \neq 0 \Rightarrow |n-d| \neq 1 \Rightarrow |n-d| \neq 1$$

$$\Rightarrow x - \omega \neq \gamma \Rightarrow x \neq \gamma$$

$$D_f = [r, \wedge] - \{r, \vee\} \quad \text{P} \quad x - a \neq -p \Rightarrow x \neq p$$

$$x - a \neq -p \Rightarrow x \neq p$$

1) $\cos n \neq 0 \Rightarrow D_f = \mathbb{R} - \left\{ k\pi + \frac{\pi}{2} \right\}$ (V)

2) $r \cos n - 1 \neq 0 \Rightarrow \cos n \neq \frac{1}{r} \Rightarrow D_f = \mathbb{R} - \left\{ k\pi \pm \frac{\pi}{r} \right\}$

3) $|r^n + 1| - |n + r| \neq 0 \Rightarrow r^n + 1 + \epsilon n \neq n^r + r + \epsilon n$ (A)

$r^n + 1 - n - 1 \neq 0$

$\Delta = 100 \quad n, r = \frac{-r}{2}, r \quad D_f = \mathbb{R} - \left\{ -\frac{r}{2}, r \right\}$

4) $|r^n + 1| - |n + r| \geq 0 \Rightarrow \epsilon n^r + 1 + \epsilon n \geq n^r + r + \epsilon n$

$\Rightarrow r^n - n - 1 \geq 0 \Rightarrow \Delta = r - r(-1)(r) = 100$

$\frac{-r}{2} \quad r$
+ | - | +

$n, r = \frac{r \pm 10}{2} \rightarrow r$
 $-\frac{r}{2}$

$D_f = (-\infty, -\frac{r}{2}] \cup [r, +\infty)$

1/2

$r^n - 1 > 0 \Rightarrow n > \frac{1}{r}$

$\log_a r^n - 1 > 0 \Rightarrow r^n - 1 > 1 \Rightarrow n > 1$

$n = 1, r \leq r$ (9)

$D_f = (\log r)$

$\log_{\frac{1}{r}} \log_a r^{n-1} \geq 0 \Rightarrow \log_a r^{n-1} \geq 1 \Rightarrow r^{n-1} \geq r \Rightarrow n \geq 2$

10) 1) $r \cos n + 1 > 0 \Rightarrow \cos n > -\frac{1}{r} \Rightarrow$

$D_f = \left(r k\pi - \frac{\pi}{r}, r k\pi + \frac{\pi}{r} \right)$

2) $\log \frac{n-1}{n+1} \geq 0 \Rightarrow \frac{n-1}{n+1} \geq 1 \Rightarrow \frac{-1}{n+1} \geq 0 \Rightarrow \frac{-1}{n+1} \geq 0$

$\frac{n-1}{n+1} > 0 \Rightarrow \frac{-1}{n+1} > 0$

$D_f = (-\infty, -1)$

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