

۲. افریقین خوب ترستر 

$\frac{2}{P_{cm}}$

$\mu \ll 1$ $\Rightarrow b = -4$

۲- راضه اعداد صحیح باشد — عبارت زیر را کمال بخشد

$$x^2 + 2m + 2 - m^2 \geq 0 \Rightarrow \Delta \geq 0 \Rightarrow x - x(2 - m^2) \leq 0$$

* $m^T - 1 \neq 0 \Rightarrow -1 \leq m \leq 1$ $\min m = -1$ $\max m = 1$ افضل

$$K - a^T \gamma_0 - \frac{1}{2} \gamma_1^T a \gamma_1$$

$$D_f = \{n | n \in \mathbb{Z}, -r \leq n \leq r\}$$

$$u \in \mathbb{R} - \mathbb{Z} \neq -1$$

$+1\} \quad x \in \mathbb{Z} = 1$

$u \in D - \{0\}$

$x \in \mathbb{R}$

٢) ٥ - ١ - ٢ = ٢

(الف) $\sqrt{a^2 + b^2}$

$$a^{\mu} + \mu a^{\nu} \gamma_{\nu} = 0$$

$$n^r(n+\nu) \geq$$

$P(s)$

۷)

$$\frac{(n^r - 1)(n^k - n^r)}{n^k - 1} \quad A \geq 0$$

$$P_f = [-r, \infty)$$

$$P_n = \begin{vmatrix} x & -1 & 0 & 1 & \mu \\ 1 & x & -1 & 0 & 1 \\ 0 & 1 & x & -1 & 0 \\ 0 & 0 & 1 & x & -1 \\ 0 & 0 & 0 & 1 & x \end{vmatrix}$$

$$Df = (-\infty, -1] \cup \{0\} \cup [1, \infty)$$

الف) $\sqrt{|a-r|} - r$

$$|a - r| = r > 0$$

$$a_1 - 1 \geq \mu \Rightarrow a_1 \geq \mu + 1$$

$$n - \frac{1}{2} - n$$

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

$$\therefore \sqrt{\frac{n-1}{n-1}}$$

$$r - |r - n| \geq 0$$

$$-2 \leq n - 1 \leq 4 \Rightarrow -2 \leq n \leq 5$$

$$\mathcal{D}f = [-1, 4]$$

(الف) $1 - n|n| \geq 0$

$$1 - n|n| \geq 0$$

$$\underline{n|n|} \leq 1$$

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$$\text{Def} \in (-\infty, 1]$$

3) ③

$$w = (n-d) \gamma_0$$

$$= 1 \leq n \leq 2, 3 \leq n \leq 5, 6 \leq n \leq 7$$

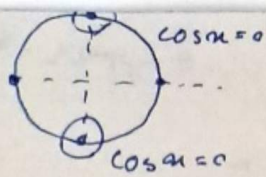
$$(r, n) \rightarrow (r, v) \quad \text{if } r = [r, v] \cup (v, n)$$

②

$$\sqrt{x - |y - 1|}$$

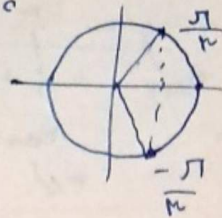
$$-1 \neq 0 \Rightarrow \mu - |u - v| \neq 1$$

$$|u - v| \neq 5$$

الف) $\cos u \neq 0 \Rightarrow$ 

$P_f = \mathbb{R} - \left\{ \frac{\pi}{2}, \frac{3\pi}{2} \right\}$

ب) $r \cos u - 1 \neq 0 \Rightarrow \cos u \neq \frac{1}{r}$



$P_f = \mathbb{R} - \left[\arccos\left(\frac{1}{r}\right), \arccos\left(\frac{1}{r}\right) \right] \cup \left[-\arccos\left(\frac{1}{r}\right), -\arccos\left(\frac{1}{r}\right) \right]$

الف) $|r_{n+1}| - |n+r| = 0 \Rightarrow$ $r_{n+1} = \pm(n+r)$

$P_f = \mathbb{R} - \left[r, \frac{r}{r-1} \right]$

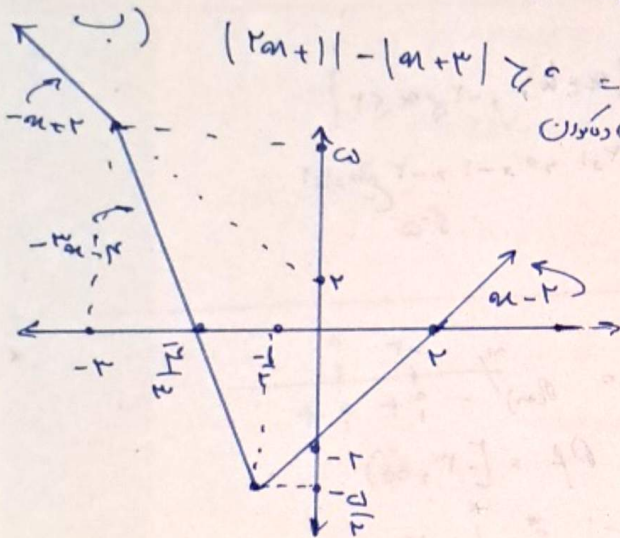
② $(r_{n+1} + 1) = n^2 + 4n + 4$

$r_{n+1}^2 - r_{n+1} - 1 \leq 0 \Rightarrow n^2 - r_{n+1} - r \leq 0$

$(n - \frac{r}{2})^2 \leq \left(\frac{r}{2}\right)^2 + r$

$r_{n+1}^2 - r_{n+1} - 1 \leq 0$

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

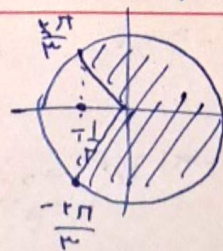


① $r_{n+1} - 1 \geq 0 \Rightarrow n \geq \frac{1}{r}$

② $\log_{\frac{r}{2}} r_{n+1} - 1 \geq 0 \Rightarrow r_{n+1} - 1 \geq \frac{r}{2}$

$P_f = [1, r]$

الف) $r \cos u + 1 \geq 0 \Rightarrow \cos u \geq -\frac{1}{r}$



$P_f = \left[\arccos\left(-\frac{1}{r}\right), \arccos\left(-\frac{1}{r}\right) \right] \cup \left[-\arccos\left(-\frac{1}{r}\right), -\arccos\left(-\frac{1}{r}\right) \right]$

ب) ① $\frac{n-1}{n+1} \geq 0 \Rightarrow n \leq -1$ or $n \geq 1$

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

$\frac{n-1}{n+1} \geq 1 \Rightarrow n-1 \geq n+1$

$n \leq -1$

$P_f = (-\infty, -1]$