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"..."

$$\frac{rx^r + ru^r - 1u + r}{-rx^r + ru^r} \left(\frac{x-1}{rx^r + du - r} \right)$$

$$du^r - 1u + r$$

$$-du^r + du$$

$$\begin{aligned} & -ru + r \\ & +ru + r \end{aligned}$$

$$(x-1)(rx^r + du - r)$$

$$(x-1)(x + du - r) \rightarrow \frac{r}{r}, \frac{1}{r}$$

$$(x + r)(u - 1)$$

DANIAL

$$R = \left\{ 1, -\frac{r}{r}, \frac{1}{r} \right\}$$

dp

$$\begin{array}{r} \cancel{r}u^r + 9u^r + 10u + r \mid u+1 \\ \hline \cancel{r}u^r + 9u^r + 10u + r \end{array}$$

$$\begin{array}{r} \cancel{v}u^r + 10u + r \\ \hline \cancel{v}u^r + 10u + r \end{array}$$

$$4u + r$$

$$4u + r$$

$$(u+1)(ru^r + vu + r)$$

$$(u+1)(u^r + 4u + 9)$$

$$(u+1)(u+9)(u+1)$$

DANIAL

$$dp \quad R = \left\{ -1, -1, -\frac{1}{r} \right\}$$

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$$\frac{x^r - rx^{r-1} + r - 1}{x^r - r + 1}$$

$$-x^r + r$$

$$-x^r + r - 1$$

$$+x^r - r$$

$$x - 1$$

$$(x-1)(x^r - x + 1)$$

$$x, 1, x^r, 1$$

$$R = \{1\}$$

DANIAL

dp

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$\rightarrow$ Hall P

$$x^r - r u + r u - 1 \mid \frac{x-1}{x^r - u + 1}$$

$$x + r$$

$$(x^r - u + 1)(u - 1)$$

$\frac{1}{u} \sim \frac{1}{u}$

$$x = -r$$

$$u = 1$$

$$\frac{-r}{+} \mid \frac{1}{-} \mid \frac{1}{+}$$

dp

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

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$$x^r - \omega |n - 1| - ru + \omega = 0 \quad |r$$

$$I: n-1 > 0$$

$$n > 1$$

$$x^r - \omega x + \omega - ru + \omega = 0$$

$$x^r - \omega x + 1 = 0$$

$$(x - r)(x - \omega) = 0$$

$$\left. \begin{array}{l} x = r \\ x = \omega \end{array} \right\} \begin{array}{l} x < 1 \\ x^r + \omega x - \omega - ru + \omega = 0 \\ x^r + ru = 0 \end{array}$$

$$x(n+r) = 0 \quad \text{DANIAL}$$

$$R = \{r, \omega, 0, -r\}$$

$$\begin{array}{l} x = 0 \\ x = -r \end{array}$$

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$$[-u] \geq 1 \quad \text{if}$$

$$R \cap D_L = \text{scribbled out}$$

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

$$[u] = t$$

$$t^2 - 1t - 1 = 0$$

$$(t - 1)(t + 1) = 0$$

$$t = 1 \rightsquigarrow [u] = 1 = [1, 1)$$

$$t = -1 \rightsquigarrow [u] = -1 = \text{scribbled out}$$

$$R = [-1, 0) \cup [1, 1)$$

DANIAL

dp

$$[n - \frac{1}{\mu}] + [n + 1 - \frac{1}{\mu}] = 2n \quad (1)$$

$$\mu [n - \frac{1}{\mu}] + 1 \geq 0$$

$$[n - \frac{1}{\mu}] \geq -\frac{1}{\mu}$$

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

$$D_R = [\frac{1}{\mu}, \infty)$$

$$[+3] + [-1] \geq 0$$

$$t \in \mathbb{Z}$$

$$n - \frac{1}{\mu} \in \mathbb{Z}$$

$$D_R = \{n \in \mathbb{Z} : n = k + \frac{1}{\mu}, k \in \mathbb{Z}\}$$

~~$D_R = \{k \in \mathbb{Z} : k = \frac{1}{\mu}\}$~~

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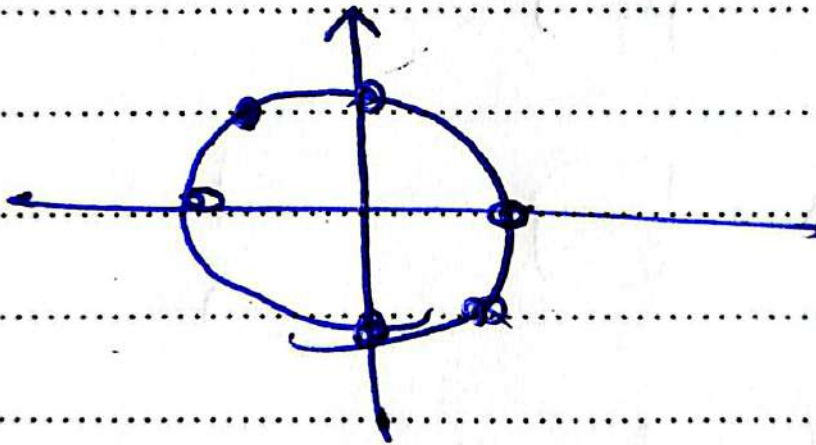
$$\sin \neq 0$$

$$\sin 1 \neq$$

$$\cos \neq 0$$

$$\tan u = -1$$

$$R = \left\{ \frac{k+\pi}{\pi}, k+\frac{\pi}{\pi} \right\}$$



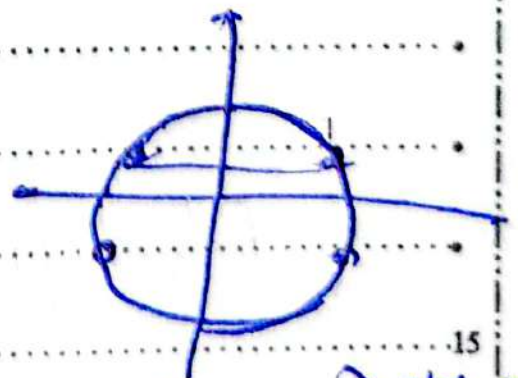
$$1 - \sin^2 u \geq 0$$

$$1 \geq \sin^2 u$$

$$\frac{1}{\pi} \geq \sin^2 u$$

$$\left\{ \frac{1}{\pi} \geq \sin u \right\}$$

$$-\frac{1}{\pi} \leq \sin u$$



$$R = \left[\frac{\pi}{4}, \frac{2\pi}{4} \right] \cup \left[\frac{5\pi}{4}, \frac{11\pi}{4} \right]$$

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$$r \sin n - 1 \geq 1 \quad (\checkmark)$$

$$r \sin n - 1 \geq 1 \quad R = \left[\frac{\pi}{\sqrt{4}} \right] \frac{\pi}{4} \quad r_{k+1} +$$

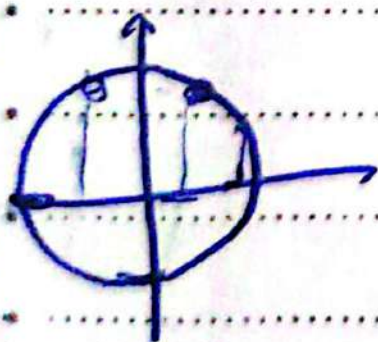
$$\sin n \geq \frac{1}{r}$$

$$1 - \cos n \geq 1$$

~~1 - \cos n~~

$$1 - \cos n$$

$$\frac{1}{r} \geq \cos n$$



$$R = \left(\frac{\pi}{\sqrt{4}} \right) \frac{\pi}{4} \quad r_{k+1} +$$

DANIAL

dp

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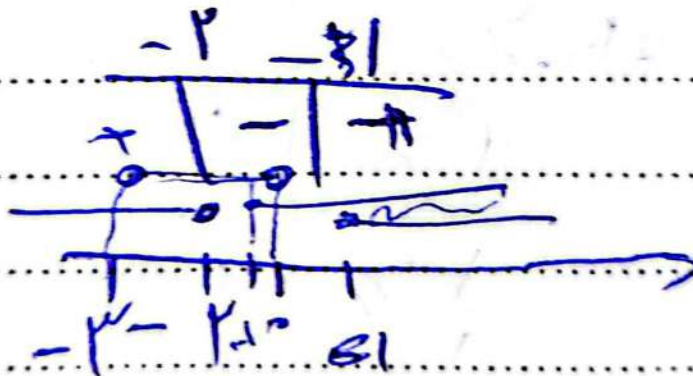
$$-1 \leq x^r + yu + 1 \leq 1 \quad (\wedge)$$

$$0 \leq x^r + yu + 1 \leq 1$$

$$(x+1)(u+1) \geq 0$$

$$x = -1$$

$$u = -1$$



$$x^r + yu \leq 1$$

$$x(u+r) \leq 1$$

$$u = 0$$

$$x = -1$$

$$-1 \leq 0 \leq 1$$

$$R_f = [-1, -1] \cup [-1, 0]$$

DANIAL

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$$\omega - r_n \geq 0$$

(-)

$$r \leq \frac{\omega}{r} \left\{ 0 \leq \sqrt{\omega - r_n} \leq 1 \right.$$

$$-1 \leq \cos y \leq 1 \rightarrow \sqrt{t} \geq 0$$

$$P_2 = [r, r, \omega] \quad r \geq r$$

$$r > 0$$

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$$1 - \log r > 0$$

$$P_2 = (0, r)$$

$$1 > \log r$$

$$\cancel{r > r}$$

$$r < r$$

DANIAL

dp

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$$1 - \log \frac{n}{r} > 0$$

$$1 > \log \frac{n}{r}$$

$$\left(\frac{1}{r} \right) n > \frac{1}{r} \Rightarrow$$

$$D_f = \left(\frac{1}{r}, +\infty \right)$$

$$-1, g^{\mu}$$

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(10)

$$K_n - n^{\mu}$$

μ

$$-1 \geq 0$$

$$K_n - n^{\mu}$$

μ

$$\geq 1, \mu$$

$$K_n - n^{\mu} \geq \mu$$

$$-1 \geq 0 \geq n^{\mu} - \varepsilon n + \mu$$

$$0 \geq (n-1)(n-\mu)$$

$$P_L = [1, \mu]$$

DANIAL

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$$\frac{r_u + \Delta}{r_u + r} \leq w$$

$$x \leq \frac{r_w - \Delta}{r - r_w} \Rightarrow$$

$$D = \{x \mid x \in \frac{r_k - \Delta}{r - r_k}, \text{ how}\}$$

جس (r) کے لیے

میں، یہ ہے



dp