

۱۸۱۷۵ افغانی خوب نوشتی می را اصل حالی که نوشتیم را بخون که اشکات سی طرف برون!

$$D_f = \left[\frac{1}{\mu} + \infty \right)$$

الف) $\frac{\cot x + 1}{\tan x + 1} \rightarrow \sin x \neq 0$
 $\tan x + 1 \rightarrow \cos x \neq 0$
 $\tan x + 1 \neq 0$
 $\tan x \neq -1$

$$D_f = \mathbb{R} - \left[\frac{k\pi}{\mu}, k\pi - \frac{\pi}{\mu} \right]$$

ب) $\sqrt{1 - F \sin^2 x} \rightarrow$

$$1 - F \sin^2 x \geq 0$$

$$1 \geq F \sin^2 x$$

$$\frac{1}{F} \geq \sin^2 x$$

$$\frac{1}{F} \geq \sin x \geq -\frac{1}{F}$$

$$D_f = \left[k\pi - \frac{\pi}{F}, k\pi + \frac{\pi}{F} \right]$$



الف) $\sqrt{\mu \sin x - 1} \rightarrow \mu \sin x - 1 \geq 0$

$$\sin x \geq \frac{1}{\mu}$$

$$D_f = \left[k\pi + \frac{\pi}{\mu}, k\pi + \frac{3\pi}{\mu} \right]$$

ب) $y = \sqrt{1 - \mu \cos x} \rightarrow$

$$1 - \mu \cos x \geq 0$$

$$\frac{1}{\mu} \geq \cos x$$

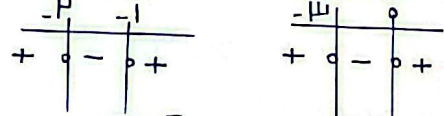
$$D_f = \left[k\pi + \frac{\pi}{\mu}, k\pi - \frac{\pi}{\mu} \right]$$

جمع انتهای بازه نباید از ابتدای آن کمتر باشد!

الف) $-1 \leq x^2 + \mu x + 1 \leq 1$

$$\bullet \langle x^2 + \mu x + \mu, x^2 + \mu x \rangle \bullet$$

$$\bullet \langle (x+1)(x+\mu), x(x+\mu) \rangle \bullet$$



$$(-\infty, -\mu] \cup [-1, +\infty), [-\mu, 0] \rightarrow D_f = [-\mu, \mu] \cup [-1, 0]$$

ب) $0 - \mu x \geq 0, -1 \leq \sqrt{0 - \mu x} \leq 1$

$$0 \geq \mu x$$

$$\mu > 0, x \leq 0$$

$$0 - \mu x \leq 1$$

$$F \leq \mu x$$

$$\mu \leq x$$

$$D_f = [\mu, \mu, 0]$$

الف) $x > 0$ I

$$1 - \log_{\mu} x > 0$$

$$1 > \log_{\mu} x$$

$$x < \mu$$

$$x < \mu$$
 II

$$I \cap II \rightarrow (0, \mu) = D_f$$

ب) $x > 0$ I

$$1 - \log_{\frac{1}{\mu}} x > 0$$

$$1 > \log_{\frac{1}{\mu}} x$$

$$x < \frac{1}{\mu}$$

$$x < \frac{1}{\mu}$$
 II

$$I \cap II \rightarrow (0, \frac{1}{\mu}) = D_f$$

چون متناهی است و ثابت نامعادله محض میشود!

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

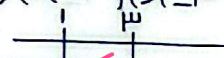
الف) $\mu^{F x - x^{\mu}} - \wedge \geq 0$

$$\mu^{F x - x^{\mu}} \geq \mu^{\mu}$$

$$F x - x^{\mu} \geq \mu$$

$$\bullet \geq x^{\mu} - F x + \mu$$

$$\bullet \geq (x-1)(x-\mu)$$



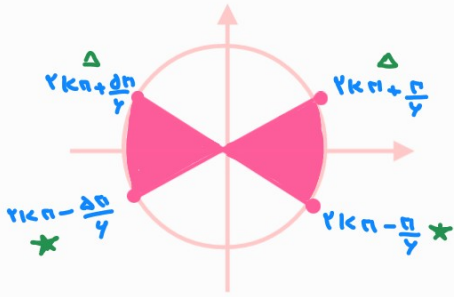
$$D_f = [1, \mu]$$

ب) $\frac{\mu x + 0}{\mu x + F} \in W$

$$x = \frac{F W - 0}{\mu W - \mu} \rightarrow \frac{-F W + 0}{\mu W - \mu}$$

$$D_f = \left\{ x \mid x = \frac{-F k + 0}{\mu k - \mu}, k \in W \right\}$$

$$4- \text{ب) } 1 - r \sin^n n \geq 0 \rightarrow r \sin^n n \leq 1 \rightarrow \sin^n n \leq \frac{1}{r} \rightarrow -\frac{1}{r} \leq \sin n \leq \frac{1}{r}$$



$$\rightarrow D_f = [kr_1^* - \frac{n}{r}, kr_1^* + \frac{n}{r}]$$

$$5- \text{ب) } 1 - r \cos n \geq 0 \rightarrow \cos n \leq \frac{1}{r}$$



$$\rightarrow D_f = [rkr_1 + \frac{n}{r}, rkr_1 + \frac{\Delta n}{r}]$$

$$9- \text{ب) } y = \log_r (1 - \log^n \frac{1}{r}) \rightarrow \log^n \frac{1}{r} \rightarrow n > 0$$

$$\hookrightarrow 1 - \log^n \frac{1}{r} > 0 \rightarrow \log^n \frac{1}{r} < 1 \xrightarrow{\text{منابع (1,0)}} n > \frac{1}{r}$$

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