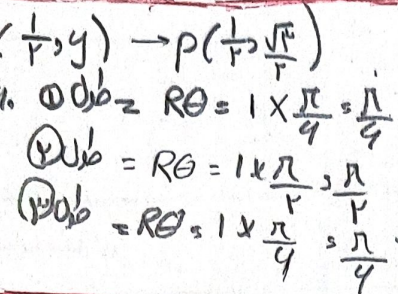


1

$$\frac{a-b}{b-a} = \frac{\sqrt{14}}{14} \times \frac{1}{\frac{1}{\sqrt{14}}} \rightarrow 1^{\text{st}} a - 1^{\text{st}} b : b - a \rightarrow 1^{\text{st}} a - 1^{\text{st}} b \rightarrow a : b \rightarrow \frac{b}{a} = \underline{\underline{1}}$$

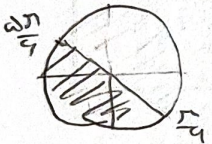


$$\underline{\text{es opp:}} = \frac{\pi}{4} + \frac{\pi}{4} + \frac{\pi}{4} + \pi = \boxed{\frac{3\pi}{4} + \pi}$$

[illegible]

$$\alpha = \left| \frac{11M}{r} - \frac{10}{11}H \right| \rightarrow \begin{cases} \text{top: } \frac{11M}{r} - \frac{10}{11}H \rightarrow 110 = \frac{11M}{r} \rightarrow \mu \leq 10 \\ \text{bottom: } -\frac{10}{11}H = \frac{11M}{r} - \frac{10}{11}H \rightarrow V_0 = \frac{11M}{r} \rightarrow \mu \leq \frac{10}{11} \end{cases}$$

$-\frac{\pi}{4} < x < \frac{\pi}{4} \rightarrow -1 \leq \sin x \leq \frac{1}{\sqrt{2}} \rightarrow -1 \leq \frac{m-1}{a} < \frac{1}{\sqrt{2}} \rightarrow -a \leq m-1 < \frac{a}{\sqrt{2}}$



$$\frac{\sin\left(\frac{\pi}{\gamma} + 1\omega\right) + K \cos\left(\frac{\pi}{\gamma} - 1\omega\right)}{\cos(\pi - 1\omega) + \gamma \sin(\pi + 1\omega)} = \mu \rightarrow \frac{\overset{\div \cos 1\omega}{\cos 1\omega} - K \sin 1\omega}{-\cos 1\omega - \gamma \sin 1\omega} = \mu \rightarrow \frac{1 - K \tan 1\omega}{-1 - \gamma \tan 1\omega} = \frac{1 - 0.45K}{-1 - \frac{1}{\gamma} K} = \mu$$

$$\frac{\tan\left(\frac{\pi}{\gamma} - \alpha\right) - \cot(\pi - \alpha)}{\cot\left(\frac{\pi}{\gamma} - \alpha\right) + \gamma \tan(\pi - \alpha)} = \frac{\cot \alpha + \gamma + \cot \alpha}{\tan \alpha - \gamma + \tan \alpha} = \frac{\gamma + \alpha}{-\tan \alpha} = \frac{\frac{\gamma}{\sqrt{\lambda}}}{-\frac{1}{\sqrt{\lambda}}} = -\frac{\gamma}{1} = \boxed{-\frac{1}{\gamma}}$$

$$\frac{1 - \cos \alpha}{1 + \cos \alpha} \rightarrow 1 - \cos \alpha + 1 + \cos \alpha \rightarrow -1 = \cos \alpha \rightarrow \cos \alpha = -\frac{1}{w} \rightarrow \begin{array}{c} w \\ \swarrow \quad \searrow \\ 1 \end{array} \sqrt{1} \rightarrow \frac{\sin \alpha}{\cos \alpha} \rightarrow \begin{array}{l} \sin \alpha > 0 \\ \cos \alpha < 0 \\ \tan \alpha < 0 \\ \cot \alpha < 0 \end{array}$$

