

$$\frac{-a \sin \frac{\pi}{4} - b \cos \frac{\pi}{4}}{-a \sin \frac{\pi}{4} + b \cos \frac{\pi}{4}} = \frac{\frac{\sqrt{2}}{2}(-a-b)}{\frac{1}{2}(-a+b)} = -\frac{\sqrt{2}}{1} \sim \frac{a+b}{-a+b} = \frac{1}{\sqrt{2}}$$

$-r = \frac{b}{a}$ $ra + rb = -a + b$
 $ra = -a$ $rb = b$

$P(\frac{1}{\sqrt{2}})$ رادیوس $P(\frac{1}{\sqrt{2}})$ $\sim 2 \sim 90^\circ \sim 180 - 110 = 70^\circ \rightarrow$ زاویه P

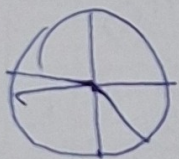
$P' \sim P$ $\sim OP + OP' + PP'$ $\sim$ فاصله $\sim \sqrt{2^2 + 2^2} = \sqrt{4 + 4} = \sqrt{8} = 2\sqrt{2}$
 $1 + 1 + \sqrt{2} = 2 + \sqrt{2}$ $\sim$ دورترین

$\frac{\pi}{4} \mid f_{\min}$
 $\frac{\pi}{4} \mid \ominus \sim f_{\min} \sim 2:40$

$2 \mid \frac{1}{2}m - 90 \mid \sim 20 \mid \frac{1}{2}m - 90 \sim m \sim 2$
 $\downarrow$
 45°

$20 = 90 - \frac{1}{2}m$

$\frac{1}{2}m \leq 20 \rightarrow m \leq \frac{40}{1}$



$\frac{1}{p} \langle \sin x \leq 1 \sim \frac{1}{p} \langle \frac{m-r}{\omega} \leq 1 \sim \frac{a}{p} \leq m-r \leq a$

$\frac{1}{2}m \leq 1 \sim m \in \{1, 2, 3, \dots, 1\} \rightarrow$ صحیح

$$\frac{\cos \omega - R \sin \omega}{-\cos \omega - P \sin \omega} \cdot \frac{\frac{1}{\sin \omega}}{\frac{1}{\sin \omega}} = \frac{\cot \omega - R}{-\cot \omega - P}$$

$$\frac{P-R}{-P} \cdot \frac{1}{\sin \omega} = \frac{P-R}{-P} \cdot \frac{1}{\sin \omega} \rightarrow P-R = -1 \rightarrow R = P+1$$

$$\tan \omega = \frac{1}{P}$$

$$\cot \omega = P$$

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$$L = P + P \rightarrow P = 1 \rightarrow C = \frac{1}{P} \rightarrow \sin \omega = \frac{\sqrt{1}}{P}$$

$$\tan \omega = -\sqrt{1} \quad \cot \omega = -\frac{1}{\sqrt{1}}$$

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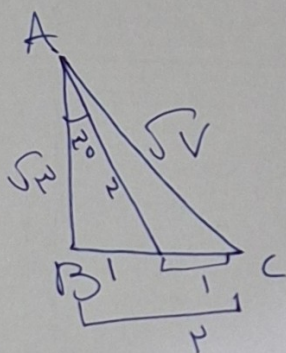
$$\frac{\cot x + \cot z}{\tan x - P \tan z} = \frac{\frac{P}{\sqrt{1}}}{\frac{1}{\sqrt{1}}} = \frac{1}{P}$$

$$L = dr$$

$$\ln \rightarrow \frac{\ln}{\ln_0} = \frac{\pi}{2} \rightarrow \pi = \frac{4}{\ln} R \rightarrow \frac{4}{\ln} R_A = \frac{4}{\ln} R_B$$

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$$\frac{S_A}{S_B} = \left(\frac{r_A}{r_B} \right)^2 = \left(\frac{P}{P} \right)^2 = \frac{4}{P}$$

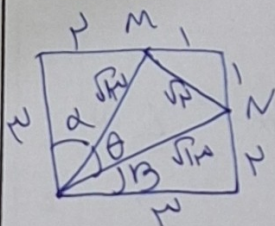


$$\sqrt{P} = \frac{\sqrt{P} \cdot P}{P}$$

$$\sin C = \frac{\sqrt{P}}{\sqrt{P}} \quad \cos C = \frac{P}{\sqrt{P}}$$

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$$\sin P_C = P \sin C \cdot \cos C = P \cdot \frac{\sqrt{P}}{\sqrt{P}} \cdot \frac{P}{\sqrt{P}} = \frac{P \sqrt{P}}{\sqrt{P}}$$



$$\sin \theta = \cos(\alpha + \beta) = \cos \alpha \cos \beta - \sin \alpha \sin \beta$$

$$\frac{P}{\sqrt{P}} \cdot \frac{P}{\sqrt{P}} - \frac{P}{\sqrt{P}} \cdot \frac{P}{\sqrt{P}} = \frac{4}{1 \cdot P} - \frac{P}{1 \cdot P} = \frac{4}{1 \cdot P}$$

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