

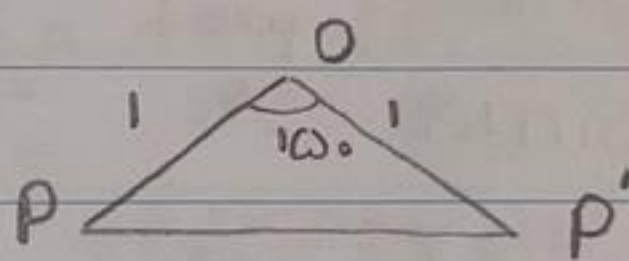
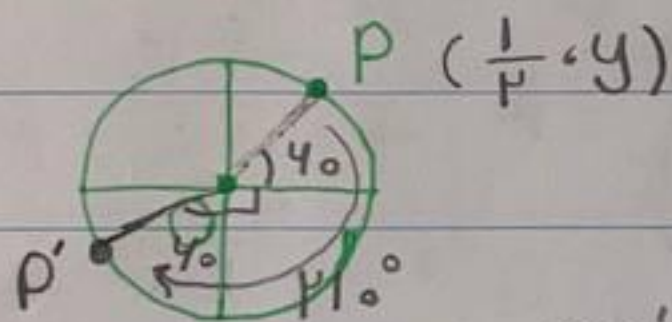
کتابخانه آبیاری

$$\frac{a \sin \frac{\pi}{\mu} + b \cos \frac{\pi}{\mu}}{a \sin \frac{\pi}{\mu} + b \cos \frac{\pi}{\mu}} = \tan \frac{\omega \pi}{\mu}$$

①

$$\mu a + \mu b = b - a \rightarrow \mu a = -\mu b$$

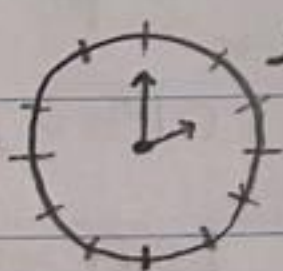
$$\frac{b}{a} = \mu a - \mu$$



$$PP' = \sqrt{1 + 1 - 2 \times 1 \times 1 \times \cos 100^\circ} = \sqrt{2 + \sqrt{3}}$$

$$\text{مساحت } \triangle OPP' = \frac{1}{2} \sqrt{2 + \sqrt{3}}$$

②



$$\frac{\text{دقیقه‌ای نیاز}}{\text{ساعت گذشته}} = \frac{\text{ساعت}}{\mu}$$

$$\frac{\pi}{9} \mu = \frac{\mu}{\mu} \rightarrow \mu = \pi \Rightarrow \mu: \pi$$

③

$$\left| \frac{11M}{\mu} - \pi h \right| = \left| \frac{11M}{\mu} - 90 \right| = \mu$$

$$\frac{11M}{\mu} - 90 = \pm \mu \rightarrow M = 12, 17 \mid \mu$$

دو مقدار بسیار μ min

④

$$-\frac{\pi}{4} < x < \frac{5\pi}{4}$$

$$\sin x = \frac{m-\mu}{\omega}$$



$$-\frac{1}{r} < \sin x \leq 1 \rightarrow -\frac{\omega}{r} < m-\mu \leq \omega$$

$$\frac{m-\mu}{\omega}$$

$$\frac{1}{r} < m \leq 1 \rightarrow 1 \leq \Lambda \rightarrow \text{مستحيل}$$

$$\frac{\sin 10\omega + K \cos 14\omega}{\cos 14\omega + \mu \sin 19\omega} = \mu$$

$90+10$ $170-10$
 $1\Lambda_0-1\omega$ $1\Lambda_0+1\omega$

$$\tan 1\omega = \frac{0.17\omega}{\frac{1}{r}}$$

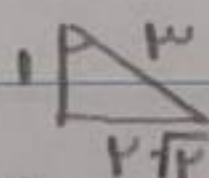
$$\frac{\cos 1\omega - K \sin 1\omega}{-\cos 1\omega - \mu \sin 1\omega} = \mu$$

$$\frac{1 - \frac{K}{r}}{-1 - \frac{\mu \times 1}{\frac{1}{r}}} = \mu \rightarrow \frac{\frac{r-K}{r}}{-\frac{\mu}{r}} = \mu$$

$$r-K = -1\Lambda \rightarrow K = r\mu$$

$$\frac{1-\cos x}{1+\cos x} = \mu$$

$$\mu + \mu \cos x = 1 - \cos x \rightarrow \cos x = -\frac{1}{\mu}$$



$$\rightarrow \sqrt{1+\mu^2 r} = r\sqrt{r} \quad \sin x = \frac{r\sqrt{r}}{r\sqrt{r} + \mu}$$

$$\cot x + \cot x$$

$$\tan\left(\frac{\pi}{r} - x\right) - \cot(\pi - x)$$

$$\frac{\cot\left(\frac{\pi}{r} - x\right) + \mu \tan(\mu\pi - x)}{+ \tan x - \mu \tan x}$$

$$= \frac{\mu \cot x}{-\tan x}$$

$$= \frac{-\frac{\sqrt{r}}{r}}{+ \frac{r\sqrt{r}}{r}} = \left(-\frac{1}{r}\right)$$

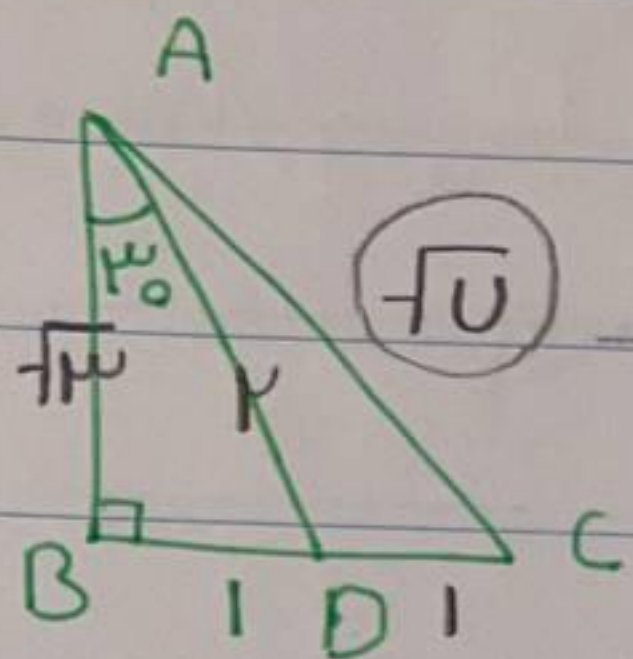
$$L = R\theta = R'\theta'$$

$$R_A \times \frac{\mu}{10} = R_B \times \frac{9}{10}$$

$$\frac{R_A}{R_B} = \frac{\mu}{r}$$

$$\frac{S_A}{S_B} = \frac{9}{r}$$

$$\frac{\theta}{\pi} = \frac{10\Lambda \times \mu}{1\Lambda_0 \times 10\omega} \Rightarrow \theta = \frac{4\pi}{10}$$

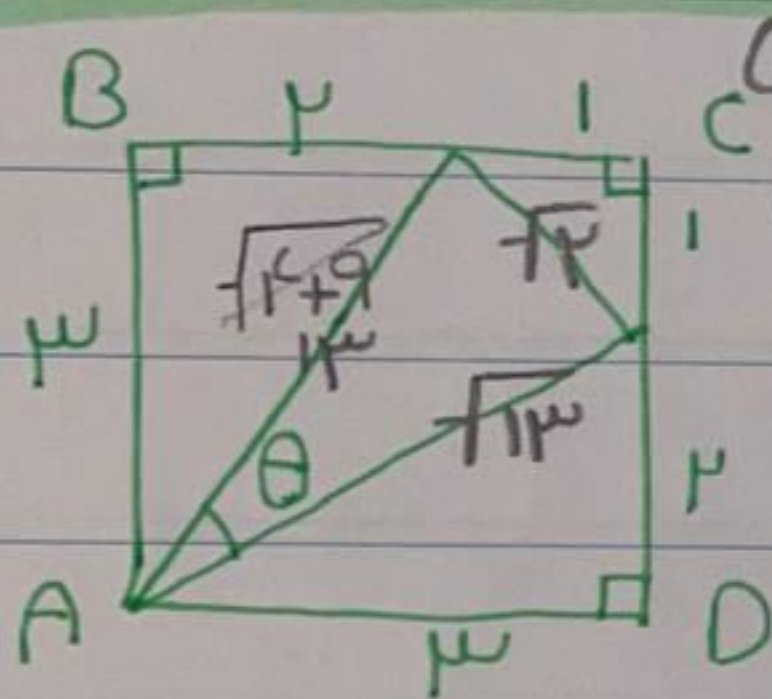


$$S_{ABC} = \sqrt{\mu}$$

$$\frac{\sqrt{\mu} \times (1 + DC)}{1} = \sqrt{\mu} \rightarrow DC = 1$$

$$\sqrt{1 + \mu} = \sqrt{u}$$

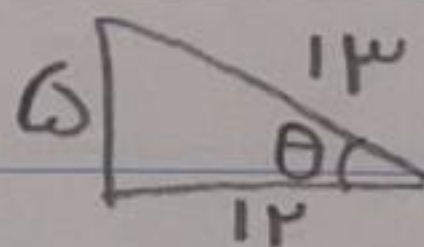
$$\sin \theta = \frac{1}{\sqrt{u}} \times \frac{\sqrt{\mu}}{\sqrt{u}} = \frac{\sqrt{\mu}}{u}$$



cos theta

$$(\sqrt{\mu})^2 = \sqrt{\mu}^2 + \sqrt{\mu}^2 - \mu \times \sqrt{\mu} \times \sqrt{\mu} \times \cos \theta$$

$$\mu = \mu + \mu - \mu \cos \theta$$



$$\cos \theta = \frac{1}{\sqrt{2}} \rightarrow \sin \theta = \frac{1}{\sqrt{2}}$$