

عرفان حقیقی یا زدهم سیر A

$$\frac{1}{\sqrt{\cos^2 \alpha}} - \frac{1}{\cot \alpha} = \frac{1 - \sin \alpha}{|\cos|} \quad (1)$$

$$\Rightarrow \frac{1}{|\cos \alpha|} - \tan \alpha = \frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 - \sin \alpha}{|\cos \alpha|}$$

$$\Rightarrow \cos \alpha > 0$$

$$-\frac{\cos \alpha}{\sqrt{1 - \cos^2 \alpha}} = -\frac{\cos \alpha}{\sqrt{\sin^2 \alpha}} = -\frac{\cos \alpha}{|\sin \alpha|} \Rightarrow$$

چون این کسر برابر $\cot \alpha$ است پس $\leftarrow \sin \alpha < 0 \leftarrow$ در نتیجه $\sin \alpha < 0$ و $\cos \alpha > 0$

$$-\frac{\pi}{12} < n < \frac{5\pi}{12} \Rightarrow -\frac{\pi}{6} < 2n < \frac{5\pi}{6} \quad (2)$$

$$\Rightarrow -\frac{1}{2} < \sin 2n < 1 \Rightarrow -\frac{1}{2} < \frac{m-1}{2} < 1 \Rightarrow 2(m-1) < 2$$

$$\Rightarrow -1 < m < 2$$

date:

subject:

$$\frac{\sin n}{\cos n} + \frac{\cos n}{\sin n} \Rightarrow \frac{\sin^2 n + \cos^2 n}{\sin n \cos n} = -\mu \Rightarrow \left(\mu \right)$$

$$\sin n \cos n = -\frac{1}{\mu}$$

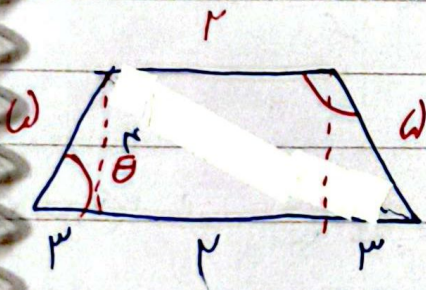
$$(\sin n + \cos n)^2 = \sin^2 n + \cos^2 n + 2 \sin n \cos n = \frac{1}{\mu}$$

$$\Rightarrow \sin n \cos n = \pm \frac{\sqrt{\mu}}{\mu}$$

$$\mu \pi < \mu n < \mu \pi \Rightarrow \frac{\mu}{\rho} \pi < n (\pi \Rightarrow) \sin n + \cos n = -\frac{\sqrt{\mu}}{\mu}$$

$$\Rightarrow \sin^{\mu} n + \cos^{\mu} n = -\frac{\sqrt{\mu}}{\mu} \times \frac{\rho}{\mu} = -\frac{\rho}{\mu} \sqrt{\mu}$$

$$\Rightarrow \frac{1}{\sin^{\mu} n \cos^{\mu} n} = \frac{1}{-\frac{\rho}{\mu} \sqrt{\mu}} \Rightarrow -\frac{\mu \sqrt{\mu}}{\rho}$$



$$\therefore \frac{\rho}{\omega} = \frac{\mu}{\omega} \Rightarrow \mu = \rho$$

$$S = \frac{(\mu + \rho)}{\mu} \times \rho = \mu$$

date:

subject:

$$\tan(r\alpha + \alpha) \tan(l\alpha + \alpha) - \sin(r\alpha - \alpha) \cos(r\alpha + \alpha) \quad (\omega)$$

$$\frac{\tan r\alpha + \tan \alpha}{1 - \tan r\alpha \tan \alpha} \times \frac{\tan l\alpha + \tan \alpha}{1 - \tan l\alpha \tan \alpha}$$

$$\Rightarrow \frac{\sqrt{r}}{r} \left(-\frac{\sqrt{r}}{r} \right) \times \sin(rv - rv) - \frac{\sqrt{r}}{r} \left(-\frac{\sqrt{r}}{r} \right) \cos(l\alpha - rv) \quad (\epsilon)$$

$$\Rightarrow \frac{r \cos rv}{r} + \cos rv = \frac{r \cos rv}{r} \Rightarrow r \cos rv$$

cancel $\cos rv$ \cancel{r}

$$1 \neq \cos^r \left(\frac{\pi}{r} \right) \cos^r \left(\frac{\pi}{r} \right) \cos^r \left(\frac{\pi}{r} \right) \cos^r \left(\frac{\pi}{r} \right)$$

$$\Rightarrow 1 \neq \left(\frac{1 + \cos \frac{\pi}{r}}{2} \right) \left(\frac{\sqrt{r}}{r} \right)^r \left(\frac{1}{r} \right) \left(-\frac{1}{r} \right)^r = \frac{1 + r\sqrt{r}}{1}$$

$$1 - \sin m = r + r \sin m \Rightarrow \sin m = -\frac{r}{\omega}$$

$$\sin m = \frac{r \tan \frac{m}{r}}{1 + \tan^2 \frac{m}{r}} \xrightarrow{\tan \frac{m}{r} = t} -\frac{r}{\omega} = \frac{rt}{1+t^2}$$

$$\Rightarrow r + r + 1 \cdot t + r = \dots \Rightarrow \begin{cases} t_1 = -\frac{1}{r} \\ t_2 = -r \end{cases}$$

$$\frac{1 + \cos \theta}{\sin \theta} \Rightarrow \frac{r \cos^r \frac{\theta}{r}}{r \sin \frac{\theta}{r} \cos \frac{\theta}{r}} = \cot \frac{\theta}{r}$$

$$\frac{\sin \theta}{1 - \cos \theta} = \frac{r \sin \frac{\theta}{r} \cos \frac{\theta}{r}}{r \sin^r \frac{\theta}{r}} = \cot \frac{\theta}{r}$$

$$\Rightarrow r \cot \frac{\theta}{r} \Rightarrow k = r$$

date:

subject:

$$\cos^r \left(\frac{11\pi}{8} + \alpha \right) = \frac{1 + \cos \left(\frac{11\pi}{4} + 2\alpha \right)}{r}$$

$$\Rightarrow \frac{1 + \sin(2\alpha)}{r} \Rightarrow \frac{1 + \frac{\sqrt{r}}{\omega}}{r} \Rightarrow \pm \sqrt{\frac{1 + \frac{\sqrt{r}}{\omega}}{r}}$$