

۲۸  $\frac{1}{\cos \alpha}$

باز هم (صحت)

زوا جیبی

$$\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 - \sin \alpha}{|\cos \alpha|} \Rightarrow \cos \alpha > 0 \quad -1$$

$$\frac{\cos \alpha}{\sin \alpha} = \frac{\cos \alpha}{|\sin \alpha|} \rightarrow \sin \alpha > 0 \quad \underline{\underline{\text{در حدی اول}}}$$

$$-\frac{\pi}{4} \leq m \leq \frac{\pi}{4} \quad \text{[Unit Circle Diagram]} \quad \frac{m-1}{r} = 1 \rightarrow m = \omega \quad -2$$

$$-\frac{1}{r} \leq \sin m \leq 1 \quad \rightarrow \quad \frac{m-1}{r} \leq -\frac{1}{r} \rightarrow m \leq -1$$

$$\boxed{-1 < m \leq \omega}$$

$$\pi < m < 2\pi \rightarrow \frac{\pi}{2} < \alpha < \frac{3\pi}{2} \quad \text{[Unit Circle Diagram]} \quad -3$$

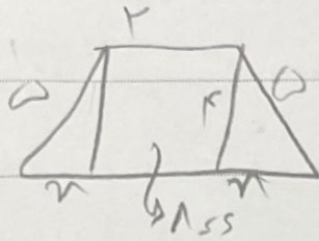
$$\frac{\sin \alpha}{\cos \alpha} + \frac{\cos \alpha}{\sin \alpha} = -\mu \quad \rightarrow \sin + \cos = -\frac{1}{\mu}$$

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

$$\frac{\sin + \cos - \frac{1}{\mu}}{1} = \frac{1}{\mu} \rightarrow \sin + \cos = \pm \frac{1}{\sqrt{\mu}}$$

$$\frac{\mu\pi}{2} < m < \pi \rightarrow \sin m + \cos m < 0 \rightarrow -\frac{1}{\sqrt{\mu}}$$

$$\frac{1}{\sin \mu + \cos \mu} = \frac{-\mu \sqrt{\mu}}{\mu}$$



$$\cos \theta = \frac{r}{r} = 1 \rightarrow r \cos \theta$$

-2

$$S = r(4) + r = \boxed{5r}$$

$$S = \frac{r \times r}{r} = r$$

$$\Rightarrow r \cos 10^\circ \rightarrow \tan\left(\frac{r}{r} + 10\right) \tan(10 - r) = -1$$

$$-\sin 10 \cos\left(\frac{r}{r} - 10\right) = -\sin 10 \rightarrow -1 + \sin^2 10 = -\cos^2 10$$

$$\boxed{r = 1}$$

$$A = \sqrt{r} \cos(\pi - \theta) \sin(\theta)$$

-9

$$-\sqrt{r} \sin(180^\circ) \cos(10^\circ) = \sqrt{r} \left(-\frac{\sqrt{r}}{r}\right) \sin\left(\frac{r}{r} - 10^\circ\right) = \sqrt{r} \left(\frac{\sqrt{r}}{r}\right)$$

$$\left(\cos(\pi - \theta)\right) \rightarrow \frac{r}{r} \cos \theta + \cos \theta = \frac{r}{r} \cos \theta$$

$$\boxed{\frac{r}{r} \cos \theta}$$

$$\cos^2 \alpha = \frac{1 + \cos 2\alpha}{2} \rightarrow \cos^2\left(\frac{\pi}{10}\right) = \frac{1 + \frac{\sqrt{r}}{r}}{2} = \frac{r + \sqrt{r}}{2}$$

$$\frac{r}{2} \times \frac{r + \sqrt{r}}{2} = \boxed{\frac{r + r\sqrt{r}}{4}}$$

Arman

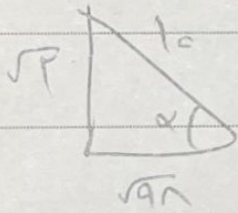
$$\Sigma + \Sigma \sin \alpha = 1 - \sin \alpha \quad \sim \Delta$$

$$\Delta \sin \alpha = r \rightarrow \sin \alpha = \frac{r}{\Delta} \rightarrow \cos \alpha = \frac{-\Sigma}{\Delta}$$

$$\frac{\cos \alpha}{r} = \frac{\sin \alpha}{1 - \cos \alpha} = \frac{-\frac{r}{\Delta}}{1 - \frac{\Sigma}{\Delta}} = \boxed{-\frac{r}{\Sigma}}$$

$$\frac{\sin \alpha}{1 + \cos \alpha} = \frac{1 - \cos \alpha}{\sin \alpha} = \tan \frac{\alpha}{2} \quad \sim \Delta$$

$$\cot \frac{\alpha}{2} + \csc \frac{\alpha}{2} = r \cot \frac{\alpha}{2} \rightarrow \boxed{r \leq r}$$



$$r \sin(\alpha + \frac{\pi}{2}) = \sin \alpha + \cos \alpha$$

$$\sin(\alpha + \frac{\pi}{2}) = \frac{r}{\Delta} \rightarrow \cos(\alpha + \frac{\pi}{2}) = \frac{-\Sigma}{\Delta}$$

$$|\sin \alpha| < |\cos \alpha| \rightarrow \frac{\pi}{2} < \alpha < \pi$$

$$\rightarrow \cos(\frac{\pi}{2} + \alpha) = \cos(\pi - (\frac{\pi}{2} + \alpha)) \Rightarrow$$

$$-\cos(\alpha + \frac{\pi}{2}) = \boxed{+\frac{\Sigma}{\Delta}}$$

$$-\frac{\Sigma}{\Delta}$$

Arman