

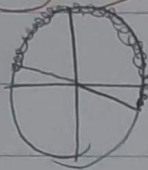
$$\frac{\cos \alpha}{\sin \alpha} = \frac{\cos \alpha}{|\sin \alpha|} \Rightarrow \sin \alpha > 0$$

(1)

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

ناحية اول

$$-\frac{\pi}{2} < 2\pi < \frac{5\pi}{2}$$



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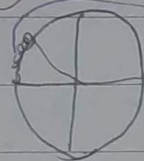
(2)

$$-\frac{1}{2} < \sin 2\pi < 1 \Rightarrow -\frac{1}{2} < \frac{m-1}{2} < 1 \Rightarrow -1 < m-1 < 3$$

$$-1 < m < 4$$

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$$\frac{\pi}{2} < \pi < \pi$$



$$\sin \pi + \cos \pi = 0$$

$$\frac{1}{\sin \pi + \cos \pi} = -\frac{1}{2}$$

(3)

$$\sin \pi \cos \pi = -\frac{1}{2}$$

$$(\sin \pi + \cos \pi)(\sin^2 \pi + \cos^2 \pi - \sin \pi \cos \pi)$$

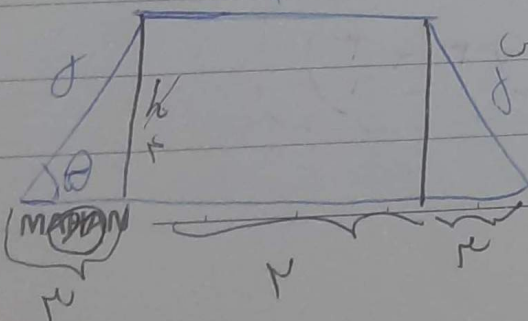
$$(\sin \pi + \cos \pi)^2 = 1 - \frac{2}{3} = \frac{1}{3} \Rightarrow \sin \pi + \cos \pi = -\sqrt{\frac{1}{3}}$$

$$\left(-\frac{\sqrt{3}}{3}\right) \left(\frac{2}{3}\right) = -\frac{2\sqrt{3}}{9} = \frac{-\frac{2\sqrt{3}}{9}}{\frac{2}{3}}$$

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$$\frac{h}{a} = \sin \theta = \frac{4}{5} \Rightarrow h = 4$$

(4)



$$\Rightarrow x = 3$$

$$= 3 \times 2 + 3 = 9$$

$$S = \frac{1}{2} \times 4 \times (1+2) = 6$$

$$\tan\left(\frac{r\pi}{r}\alpha\right)\tan(-\pi+\alpha) - \sin(4\pi+\alpha)\cos\left(\frac{r\pi}{r}-\frac{(\alpha-\pi)}{r}\right) \quad (2)$$

$$(-\cot\alpha) \times (\tan\alpha) - (\sin\alpha)(-\sin\alpha)$$

$$-1 + \sin^2\alpha = -\cos^2\alpha \Rightarrow K = -1$$

$$\sqrt{r} \times \left(1 - \frac{\sqrt{r}}{r}\right) \times \left(\sin\left(\frac{r\pi}{r}-\alpha\right)\right) - \sqrt{r} \times \frac{\sqrt{r}}{r} \times \left(\cos(\pi-\alpha)\right) \quad (4)$$

$$+\frac{r}{r}\cos\alpha + \frac{1}{r}\cos\alpha = r\cos\alpha$$

$$14\cos^2\left(\frac{\pi}{14}\right)\left(\cos^2\frac{\pi}{4}\right)\left(\cos^2\frac{\pi}{r}\right)\left(\cos^2\frac{r\pi}{r}\right) \quad (5)$$

$$\frac{1}{r}\sin^2\frac{\pi}{r} = \cos^2\frac{r\pi}{r} \xrightarrow{\frac{\pi}{4}} \sin^2\frac{\pi}{r}$$

$$14\left(\cos^2\frac{\pi}{4}\sin^2\frac{\pi}{4}\right) \times \left(\cos^2\frac{\pi}{14}\right)\left(\sin^2\frac{r\pi}{r}\right)$$

$$\times \left(\cos^2\frac{r\pi}{r}\right)\left(\sin^2\frac{r\pi}{r}\right)\left(\cos^2\frac{\pi}{14}\right)$$

$$\times \left(\sin^2\frac{r\pi}{r}\right)\left(\cos^2\frac{\pi}{14}\right)$$

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

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

$$\frac{1 - \sin \alpha}{1 + \sin \alpha} = \frac{r}{f}$$

$$f + fS = 1 - S$$

$$\delta S = -r$$

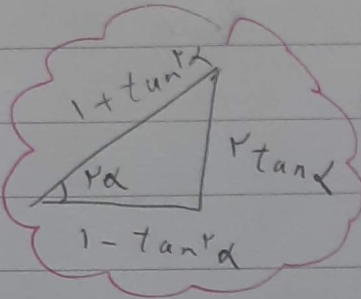
$$S = -\frac{r}{\delta}$$

①

$$\tan \frac{\alpha}{r} = \tan \alpha$$

$$\tan \alpha = \frac{r}{f}$$

ضلع
plus



$$C = -\frac{f}{\omega}$$

ضلع

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$$\tan \alpha = \frac{r \tan \alpha}{1 - \tan^2 \alpha}$$

$$\frac{r}{f} = \frac{rt}{1-t^2} \Rightarrow r - rt^2 = 1t$$

$$rt^2 + 1t - r = 0$$

$$t^2 + 1t - r = 0$$

$$(t+9)(t-1) = 0$$

$$t = -\frac{9}{r}$$

$$t = \frac{1}{r}$$

جواب ہے $\Rightarrow \tan \alpha = -r$

$$\frac{\sin^2 \alpha + \cos^2 \alpha}{\sin^2 \alpha + \cos^2 \alpha}$$

$$\frac{\sin^2 \alpha + \cos^2 \alpha}{(\sin \alpha)(1 - \cos \alpha)} = \frac{r \sin^2 \alpha}{\sin \alpha (1 - \cos \alpha)} = \frac{r \sin \alpha}{1 - \cos \alpha}$$

②

$$\frac{r \times r \sin \alpha \cos \alpha}{1 - \cos^2 \alpha + \sin^2 \alpha} = \frac{r \sin \alpha \cos \alpha}{\sin^2 \alpha} = \frac{r \cos \alpha}{\sin \alpha}$$

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$$r \cot \alpha \Rightarrow K = r$$

Date:

Subject:

$$\sin \alpha = \frac{\sqrt{1}}{10} \quad \text{صندوق} \quad \cos \alpha = \frac{-\sqrt{1}}{10}$$

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$$\cos\left(\frac{3\pi}{4} + \alpha\right) = ?$$

$$5 \quad \cos\frac{3\pi}{4} \cos \alpha - \sin\frac{3\pi}{4} \sin \alpha$$

$$-\frac{\sqrt{2}}{2} \times \frac{-\sqrt{1}}{10} - \frac{\sqrt{2}}{2} \times \frac{\sqrt{1}}{10} \Rightarrow \frac{1}{2} - \frac{1}{2} =$$

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