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$$\sec n - \tan n = 1 \quad [0, 2\pi]$$

(1)

$$\sec n = \tan n + 1 \quad \frac{1}{\cos n} \rightarrow \sec n = 1 \quad \cos n = \frac{1}{1}$$

$$\cos n = \frac{1}{1} \quad \text{Unit Circle} \rightarrow \text{جواب } n = \frac{R}{\mu}, \frac{2R}{\mu}$$

$$\sin n + \cos n = -1 \quad [-\pi, \pi]$$

(2)

$$\sin n + \cos n + 1 = 0 \quad \sin n + \cos n + 1 = 0$$

$$\sin n + \cos n = -1$$

$$\sin n = 0 \rightarrow n = -\pi, 0, \pi$$

$$\cos n = 0 \rightarrow n = \frac{\pi}{2}, \frac{3\pi}{2}$$

$$n = \frac{\pi}{2}, \frac{3\pi}{2}$$

$$\sin n \cos n + \sin n = 1$$

$$1 - \sin^2 n$$

$$\sin n (1 - \sin^2 n + \sin n - 1) = 0 \rightarrow \sin^2 n - \sin n + 1 = 0$$

$$\sin n = -1 \rightarrow n = \frac{3\pi}{2}$$

$$\sin n = \frac{1}{2} \rightarrow n = \frac{\pi}{6}, \frac{5\pi}{6}$$

$$\frac{2\pi R}{\mu}$$

Arman

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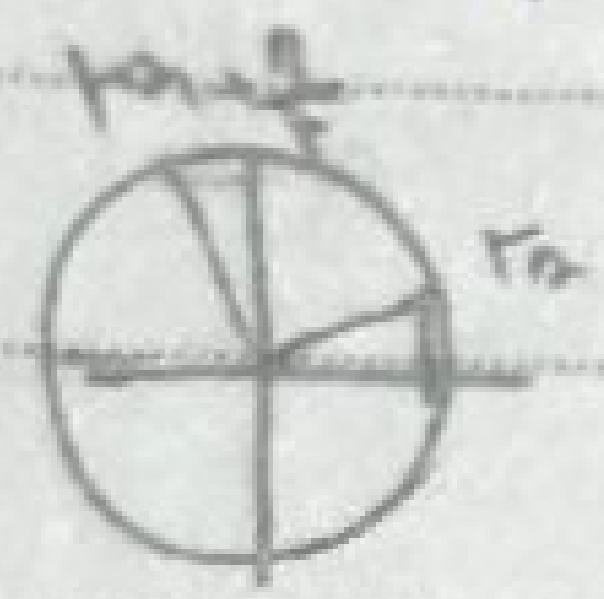
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(5)

$$\frac{1}{\sin(\frac{R}{f} + \theta)} + \frac{1}{\cos(\frac{R}{f} + \theta)} = 0 \rightarrow \cos \theta = \cos(\frac{R}{f} - \theta)$$


 $\cos \theta = \cos(\frac{R}{f} - \theta)$
 $\theta = \frac{R}{f} - \theta$

$$\sin \theta = \frac{R}{f} - \theta \rightarrow \theta = \frac{R}{f} - \theta \rightarrow \theta = \frac{R}{f} - \theta$$

$\theta = \frac{R}{f} - \theta \rightarrow \theta = \frac{R}{f} - \theta$

$$\theta = \frac{R}{f} - \theta - \theta \rightarrow \tan(\frac{R}{f}) = \sqrt{3}$$

$$m(\cos \theta - \sin \theta) - \sqrt{4} \sin(\theta) = \sqrt{4}$$

(6)

$$\cos(\theta + \frac{R}{f}) = \frac{1}{\sqrt{3}} \rightarrow \cos \theta \cdot \frac{1}{f} - \sin \theta \cdot \frac{R}{f} = \frac{1}{\sqrt{3}}$$

$$\cos \theta - \sin \theta = \frac{\sqrt{3}}{f} \star \quad ()^2 \rightarrow 1 - \sin \theta = \frac{1}{f} \rightarrow \sin \theta = \frac{1}{f} \star$$

$$m(\frac{\sqrt{3}}{f}) - \sqrt{4} = \sqrt{4} \cdot \sqrt{4} \rightarrow m = \frac{\sqrt{4}}{f} \cdot \sqrt{3} \quad (7)$$

$$\sin(\theta + \frac{R}{f}) \cos(\theta - \frac{R}{f}) = 1 \quad \text{[log PR]}$$

(4)

$$\cos(\frac{R}{f} - \theta) \Rightarrow \theta + \frac{R}{f} + \frac{R}{f} - \theta = \frac{R}{f} \rightarrow \sin(\theta + \frac{R}{f}) = 1 \rightarrow \sin(\theta + \frac{R}{f}) = \pm 1$$

$\theta + \frac{R}{f} = \frac{R}{f} \rightarrow \theta = 0$

$$\Rightarrow \theta + \frac{R}{f} = \frac{R}{f} \rightarrow \theta = \frac{R}{f} - \frac{R}{f} \rightarrow \theta = 0$$

$\theta = 0$

$$\sin n + \sqrt{p} \cos n = \sqrt{p} \quad [-R, R]$$

(V)

$$\frac{1}{p} \sin n + \frac{\sqrt{p}}{p} \cos n = \frac{\sqrt{p}}{p}$$

$$\sin\left(\frac{R}{p} + n\right) = \sin\left(\frac{R}{p}\right) \rightarrow n + \frac{R}{p} = \frac{R}{p} + \frac{R}{p}$$

$\left(\frac{-R}{1p}\right)$

$$n \in [R, R] \quad n = \frac{R}{p} + \frac{R}{p} + \frac{R}{p}$$

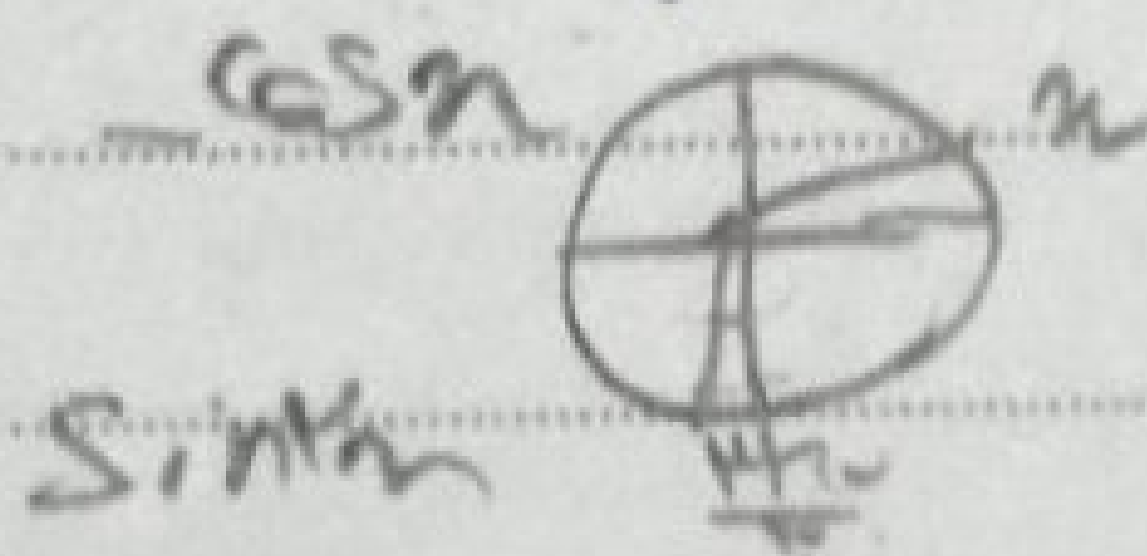
$$n + \frac{R}{p} = \frac{R}{p} + \frac{R}{p} + \frac{R}{p}$$

$\left(\frac{R}{1p}\right)$

$$2R = \frac{4R}{p}$$

$$\sin n \sin\left(\frac{R}{p} - n\right) = 1 \quad [0, R]$$

(^)



$$\sin n \cos n = 1 \rightarrow \sin n = \frac{1}{p} \Rightarrow \sin n = \sin\left(\frac{R}{p}\right)$$

$$n = \frac{R}{p} - \frac{R}{p}$$

$$n = \frac{R}{p} + \frac{R}{p}$$

$$n \in [0, R]$$

$$\frac{R}{p} + \frac{R}{p} + \frac{R}{p} + \frac{R}{p} = \frac{4R}{p}$$

(W7)

$$\tan n \tan n = 1 \quad [R, R]$$

(10)

$$\tan n = \frac{1}{\cot n} = \tan\left(\frac{R}{p} - n\right)$$

$$n = \frac{R}{p} + \frac{R}{p} - n \rightarrow n = \frac{R}{p} + \frac{R}{p}$$

$$n \in [R, R] \rightarrow \frac{R}{p} + \frac{R}{p} + \frac{R}{p} + \frac{R}{p} = \frac{4R}{p}$$