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$$\sin \frac{\pi}{2} = \frac{\sqrt{r}}{r} \quad \cos \frac{\pi}{2} = \frac{\sqrt{r}}{r} \quad \sin \frac{\pi}{2} = \frac{1}{r} \quad \cos \frac{\pi}{2} = \frac{1}{r} \quad \sin \frac{\pi}{2} = \frac{1}{r}$$

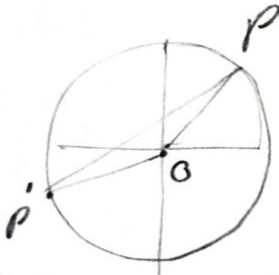
$$a = \frac{\sqrt{r}}{r} + b = \frac{\sqrt{r}}{r} \rightarrow \frac{1}{\sqrt{r}} \rightarrow \frac{\sqrt{r}(a+b)}{\frac{1}{r}(b-a)} = \frac{1}{\sqrt{r}} \rightarrow \frac{r(a+b)}{r} = \frac{1}{r}(-a+b)$$

$$\rightarrow a = -b \rightarrow b = -a$$

$$\frac{b}{a} = -\frac{r}{a} = -r \quad \checkmark$$

$$y = \sqrt{1 - \frac{1}{r}} = \sqrt{\frac{r-1}{r}} \quad \text{pp}' \rightarrow \text{pp}' + \text{pp}' = \text{pp}' + \frac{\sqrt{r-1}}{r} = y$$

$$\frac{y + \sqrt{r-1}}{r} \rightarrow \text{pp}' = \sqrt{(ap - ap')^2 + (yp - yp')^2} = \sqrt{\left(\frac{1}{r} - \frac{r}{r}\right)^2 + \left(\frac{\sqrt{r-1}}{r} - \frac{1}{r}\right)^2} = \frac{\sqrt{r-1}}{r}$$



$$p = \frac{1}{r} = \frac{r}{r} \quad \text{pp}' = \frac{r}{r} = \frac{r}{r}$$

$$r: f_0 \quad \checkmark$$

$$|k_0 h - \omega m| \rightarrow |\omega m - k_0| = r_0 \rightarrow m > r_0, m < r_0$$

$$m > r_0$$

غير قابل قبول

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

$$\sin(90^\circ + \alpha) = \cos \alpha \quad \cos(90^\circ + \alpha) = -\sin \alpha$$

$$\cos(180^\circ) = \cos(180^\circ - \alpha) = -\cos \alpha \quad \sin(180^\circ) = \sin \alpha$$

$$\frac{\cos \alpha - k \sin \alpha}{-\cos \alpha - k \sin \alpha} \rightarrow \frac{1 - k \tan \alpha}{1 - r k \tan \alpha} = \frac{1 - r k \tan \alpha}{1 - r k \tan \alpha} \rightarrow r k \tan \alpha = \alpha / \alpha \rightarrow k = r$$

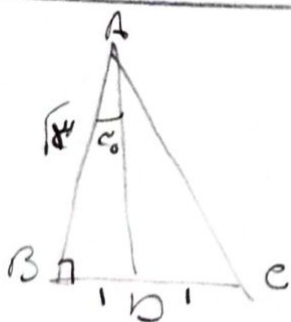
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-v

$$\frac{dy + \cot y}{\tan y - \sec y} = \frac{y \cot y}{-\tan y}$$

$$\frac{v_R}{\omega} - r_B \rightarrow r_A = \frac{v}{\gamma} r_B$$

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$$\text{conc.} \xrightarrow{\frac{1}{r}} \frac{\text{RDP}}{\text{ADP}} \xrightarrow{\frac{1}{r}} \text{ADP}$$

$$B \leq q \rightarrow AB^T, BD^T, AD^T \rightarrow AB^T, D^T \rightarrow AB, \sqrt{r} \quad (-\sqrt{r} \cdot X)$$

$$S_{ABC} = \frac{1}{r} AB \cdot BC \sin 2 = \sqrt{r} \rightarrow a = r, \frac{\sqrt{r}}{r} a = r \rightarrow AC = \sqrt{r}$$

sin the case ring $\rightarrow \frac{p}{v} \times \frac{\sqrt{v}}{\sqrt{v}} = \frac{p\sqrt{v}}{v}$

$$u, v, \sqrt{u} \quad \text{---} \quad u, v, \sqrt{u} \quad \text{---} \quad u, v, \sqrt{u}$$

$$AN = AM \rightarrow AM^T = (AB^T) + (BM)^T = v^T + v^T = 1v \rightarrow AM = \sqrt{1}v$$

$$S_{ADN} = S_{ARM} = \frac{r \times r}{r} = r, \quad S_{MCN} = \frac{1 \times 1}{r}$$

$$\cancel{SADN} + \cancel{SABM} + \cancel{SMCN} + \text{S} \text{A} \text{M} \text{N} = \cancel{SABCD} \rightarrow$$

$$\frac{1}{r} \times \sqrt{15} \times \sqrt{15} \times \sin \theta = \frac{\omega}{r}$$

$$\sin \theta = \frac{2}{15}$$

