

۱۹/۵

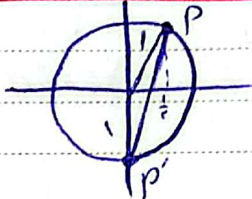
Tuesday
2023 August

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مردی کردیچانی < کلین سازه ۱۲

$$\frac{-\frac{\sqrt{3}}{r}a - \frac{\sqrt{3}}{r}b}{-\frac{1}{r}a + \frac{1}{r}b} = \frac{-\frac{\sqrt{3}}{r}(a+b)}{-\frac{1}{r}(a-b)} = \frac{\sqrt{3}(a+b)}{a-b} = \frac{-\sqrt{3}}{3} \quad (1)$$

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

$$\varphi_0 + 2\psi_0 = 2\nu_0 \Rightarrow$$


$$PP' = \sqrt{1 + 1 - 2 \times 1 \times \frac{\sqrt{3}}{r}} = \sqrt{r + \sqrt{3}} \Rightarrow h = r + \sqrt{r + \sqrt{3}}$$

$$\frac{\pi}{9} \times \frac{110}{\pi} = 20^\circ \Rightarrow \frac{1}{r_0 \min} \left| \begin{array}{c} h \\ r_0 \end{array} \right| \frac{r_0}{r_0} \Rightarrow r, r_0$$

$$\left| \frac{11 \times M}{r} - r_0 \times r_0 \right| = r_0 \Rightarrow \frac{11M - 110}{r} = r_0$$

$$\Rightarrow M = r_0 \Rightarrow \text{بعد از گذشت ۲۰ دقیقه}$$



$$\Rightarrow -\frac{\pi}{9} < \alpha < \frac{\pi}{9} \Rightarrow -\frac{1}{r} < \sin \alpha < \frac{1}{r} \Rightarrow -\frac{1}{r} < \frac{m-r}{a} < \frac{1}{r}$$

$$\Rightarrow \frac{a}{r} < m - r < a \Rightarrow \frac{1}{r} < m < 1$$

$$\frac{\cos 10^\circ - K \sin 10^\circ}{-\cos 10^\circ - Y \sin 10^\circ} = \mu$$

(4)

$$\Rightarrow \frac{1 - K \tan 10^\circ}{-1 - Y \tan 10^\circ} = \mu \Rightarrow -\mu - Y \tan 10^\circ = 1 - K \tan 10^\circ$$

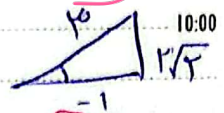
(2)

$$\Rightarrow \frac{K}{\Sigma} = \mu + \frac{Y}{\Sigma} \Rightarrow K = 19 + 4 = 23$$

$$\frac{\cot \alpha + \cot \beta}{\tan \alpha - Y \tan \beta} = \frac{Y \cot \beta}{-\tan \beta} = Y \cot \alpha = -Y \cot \beta$$

(1, 2) (V)

$$Y + Y \cos \alpha = 1 - \cos \alpha \Rightarrow Y \cos \alpha = -1 \Rightarrow \cos \alpha = -\frac{1}{Y}$$



$$\Rightarrow \cot = \frac{-1}{Y \sqrt{Y}} = \frac{-\sqrt{Y}}{\Sigma} \Rightarrow Y \cot \alpha = Y \times \frac{-\sqrt{Y}}{\Sigma} = \frac{-\sqrt{Y}}{\Sigma}$$

$$\cot \alpha = \frac{-1}{\sqrt{Y}} \rightarrow -Y \cot \beta = -\frac{1}{\Sigma}$$

(-sqrt(Y)/Sigma)

$$\frac{10 \times \pi \times R}{11} = \frac{9 \pi}{16} \times R' \Rightarrow \frac{Y}{\mu} R = R' \Rightarrow \frac{R_A}{R'_B} = \frac{\mu}{Y}$$

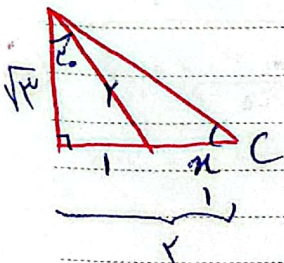
(1)

$$\frac{S_A}{S_B} = \left(\frac{R}{R'}\right)^2 = \frac{4}{\Sigma}$$

(2)

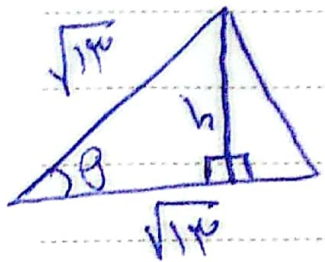
$$\cot \alpha = \sqrt{Y} \quad \frac{\sqrt{Y} \times (1 + \mu)}{Y} = \sqrt{Y} \Rightarrow \mu = 1$$

(9)



$$\sin \gamma C = Y \cos C \sin C = Y \times \frac{\sqrt{Y}}{\Sigma} \times \frac{Y}{\sqrt{Y}} = \frac{\Sigma \sqrt{Y}}{Y}$$

(2)



$$\Rightarrow \sum \phi = 9 \rightarrow \sum_{\text{clock}} = 9 - r - r - 0 \cdot d = r \cdot d$$

$$\Rightarrow \frac{d}{r} = \frac{h \times \sqrt{140}}{r} \Rightarrow h = \frac{d}{\sqrt{140}}$$

$$\Rightarrow \sin \theta = \frac{h}{\sqrt{140}} \Rightarrow \frac{\frac{d}{\sqrt{140}}}{\sqrt{140}} = \frac{d}{140}$$