

Model .

Calculation.

$$R = \int_{0.3^2 + 0.4^2} = 0.5$$

Exercipinal position = aresin $\frac{3}{5}$

Let θ max = $\frac{\pi}{4}$, (time unit) $dt = \alpha 1$ angular acceleration $\theta'' = -\frac{g}{R} \sin \theta \cdot (g = 9.81)$ By accumulating, velocity found angle θ $V_{after} \theta t + V_{before}$, $\theta_{after} V_{after} \times dt$ horizontal distance $\theta = \frac{\pi}{4} \sin \theta \cdot (g = 9.81)$

Xdis R. Sin O

XIND = XIND at original position + X dis

Since of clirection of the pendulum Swing or is considered as positive and regative horizontal distance. the ultimate coindate of shalk boy is staright-forward as original position accumulated by the distance