

⑤ Max. Speed of a vehicle to move on a convex bridge :-



BANKING OF ROADS: -

Case-I :- Rough horizontal Road (Suf Friction)

$$V_{max} = \sqrt{\mu Rg} \quad \omega_{max} = \sqrt{\frac{R}{\mu g}}$$

Case-II :- Smooth Banked Road (Suf Banking)

$$V_{max} = \sqrt{Rg \tan \theta}$$

Case-III :- Rough Banked Road (Banking + Friction)

$$V_{max} = \sqrt{Rg \left[\frac{\tan \theta + \mu}{1 - \mu \tan \theta} \right]}$$

$$V_{min} = \sqrt{Rg \left[\frac{\tan \theta - \mu}{1 + \mu \tan \theta} \right]}$$

Safe Side :- $V_{min} < V < V_{max}$

CONICAL PENDULUM:-

$$\tan \theta = \frac{v^2}{Rg}$$



MR Special:-

• g - Value of a planet using Conical Pendulum:-

$$V = \sqrt{Rg \tan \theta} = \frac{2\pi r}{T} \quad \left(g = \frac{4\pi^2 r}{T^2 \tan \theta} \right)$$

• T.P. of Conical Pendulum:-

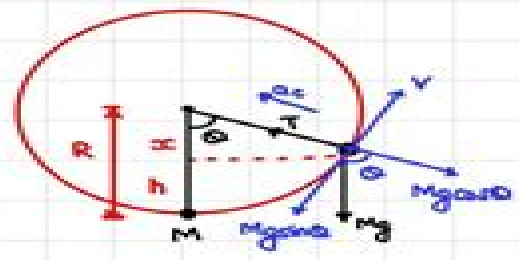
$$T_p = 2\pi \sqrt{\frac{l \cos \theta}{g}}$$

$$T_p = 2\pi \sqrt{\frac{h}{g}}$$

$$T_p = 2\pi \sqrt{\frac{(l^2 - r^2)^{1/2}}{g}}$$



VERTICAL CIRCULAR MOTION:-



At any point:-

$$T_a = Mg \cos \theta + \frac{Mv^2}{R}$$

$$T_p = 3Mg (1 + \cos \theta)$$

$$V_p = \sqrt{gR [3 + 2 \cos \theta]} \quad h = R [1 - \cos \theta]$$

$$PE_p = MgR [1 - \cos \theta] = Mgh$$

$$KE_p = \frac{1}{2} MgR [3 + 2 \cos \theta] = \frac{1}{2} Mv^2$$

$$TE = \frac{5}{2} MgR \text{ Constant}$$

• IF $0 < v \leq \sqrt{2gR}$

- oscillation • $T \neq 0$ • $v = 0$
- $0 < \theta < 90^\circ$

$$T_p = Mg \cos \theta \quad V_L = \sqrt{2gR [1 - \cos \theta]}$$

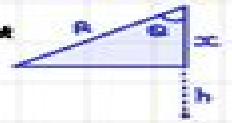
$T = Mg [3 - 2 \cos \theta]$ (Lowest position)

• $V_L = \sqrt{gR} \quad \theta = 60^\circ$
 $a_t = g \sin \theta$

• $V_L = \sqrt{2gR} \quad \theta = 90^\circ$
 $a_t = g$

• $\sqrt{2gR} < V_L \leq \sqrt{5gR}$
 (Parabolic Path) ($T=0$) ($v \neq 0$)
 ($90^\circ < \theta < 180^\circ$)

• $h = R [1 + \cos \theta]$

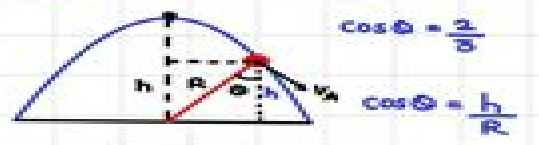


• $V_p = \sqrt{gR \cos \theta}$

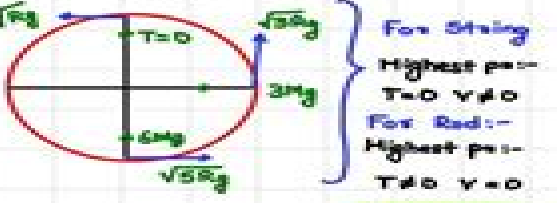
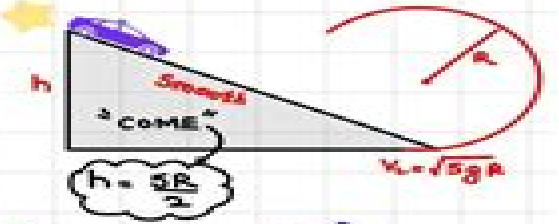
~~2gR~~ $\cos \theta = \frac{V_L^2 - 2Rg}{3Rg}$

• $h = R [1 + \cos \theta]$

PARTICLE LEAVING CONTACT WITH SEMISPHERE:-



$V_p = \sqrt{2gR [1 - \cos \theta]}$



For String
 Highest pt - $T=0, v=0$
 For Rod -
 Highest pt - $T \neq 0, v=0$

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Michael Brown



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