⑧ Max. Speed of a vehicle to move on a convex bridge :-

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

BANKING OF ROADS: -

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

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

Case-II :- Smooth Banked Road-
(Self 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 Ride :- $V_{min} < V < V_{max}$.

CONICAL PENDULUM:-

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

MR² Special :-

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

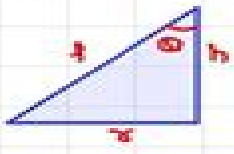
$v = \sqrt{Rg\tan\theta} = \frac{2\pi r}{T}$ $\quad g = \frac{4\pi^2 r}{T^2\tan\theta}$

- T.P. of Conical Pendulum :-

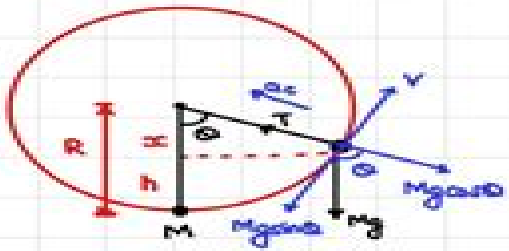
$T_P = 2\pi\sqrt{\frac{l\cos\theta}{g}}$

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

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



VERTICAL CIRCULAR MOTION:-



At any point :-

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

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

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

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

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

$TE = \frac{5}{2}MgR$. constant.

- If $0 < V \le \sqrt{2gR}$
  - oscillation
  - $T \neq 0$
  - $V = 0$
  - $0 < \theta < 90°$

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

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

- $V_L = \sqrt{gR}$ $\quad \theta = 60°$

$a_t = g\sin\theta$

- $V_L = \sqrt{2gR}$ $\quad \theta = 90°$

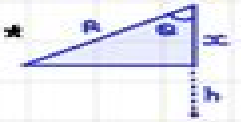
$a_t = g$

- $\sqrt{2gR} < V_L \le \sqrt{5gR}$

(Parabolic Path) $(T=0)$ $(V \neq 0)$

$(90° < \theta < 180°)$

- $h = R[1 + \cos\theta]$ *

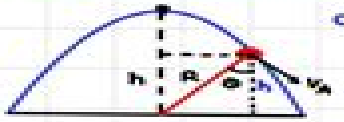


- $V_P = \sqrt{gR\cos\theta}$

Proof: $\cos\theta = \frac{V_L^2 - 2R_g}{3R_g}$

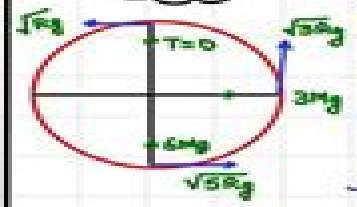
- $h = R[1 + \cos\theta]$

PARTICLE LEAVING CONTACT WITH SEMISPHERE: -



$\cos\theta = \frac{2}{3}$ $\quad \cos\theta = \frac{h}{R}$

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



For String
Highest pt :-
$T=0$ $V \neq 0$
For Rod :-
Highest pt :-
$T \neq 0$ $V = 0$

@Mayur Pawar

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L Darling-Hammond

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