• RELATION B/WW &T *Acceleration (a)

Distance => S=RO

· Uniform Circular motion

 $a_t = 0$, x = 0, $V \Rightarrow Const$

ay = w2R, |ay => Const

Timeperiod = 2TI

· Banking of the roads

V= Jaktono (nofrixion)

 $V_{\text{max}} = \sqrt{\frac{9R(M + \text{ton 0})}{(1 - M \text{ton 0})}}$ (frixion)

- $\alpha = \alpha R(\hat{e}_t) + \omega^2 R(-\hat{e}_r)$ $|\vec{a}_t| = \alpha R |\vec{a}_r| = \omega^2 R = \frac{V^2}{R}$
- Velocity $\Rightarrow V = R \frac{d\theta}{dt} \Rightarrow V = R\omega$ $Velocity \Rightarrow V = R \times \omega$



Fr = Mv2 = MW2R (centripelas)

· Rotor

W> Value

· Radius of Curvature · Forces (dynamics)

Y=f(x) -reg of path

 $Roc = \frac{[1 + (Y')^2]^{3/2}}{Y''}$

· Death well

V> 19R

Vmin = V9R