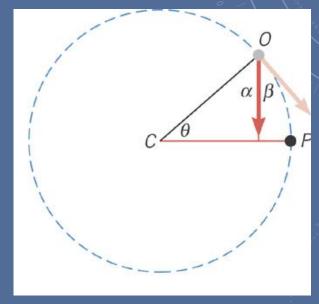
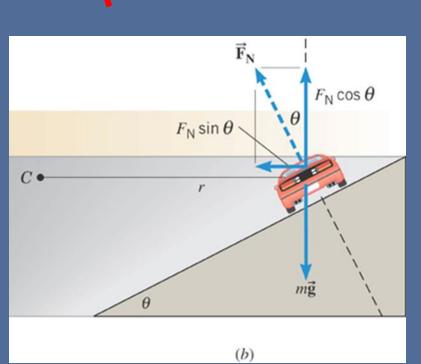


T = min/revolutions = 1/(rev/min)



Direction of velocity is tangent to the circle



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

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$\frac{1}{2}mv_f^2 + \frac{1}{2}I\omega_f^2 + mgh_f = \frac{1}{2}mv_i^2 + \frac{1}{2}I\omega_i^2 + mgh_i$

CONSERVATION OF A CONSERVATION

 $mr_A^2 \frac{v_A}{r_A} = mr_P^2 \frac{v_P}{r_P}$