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

SATELITES IN CIRCULAR ORBITS $F_c = G \frac{mM_E}{r^2} = m \frac{v^2}{r}$ $V = \sqrt{\frac{GM_E}{r}}$ $V = \sqrt{\frac{GM_E}{r}}$ $V = \sqrt{\frac{GM_E}{r}}$ $V = \sqrt{\frac{GM_E}{r}}$

ROTATIONAL KINETIC ENERGY

$$KE_R = \frac{1}{2}I\omega^2$$

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CONSERVATION OF ENERGY

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