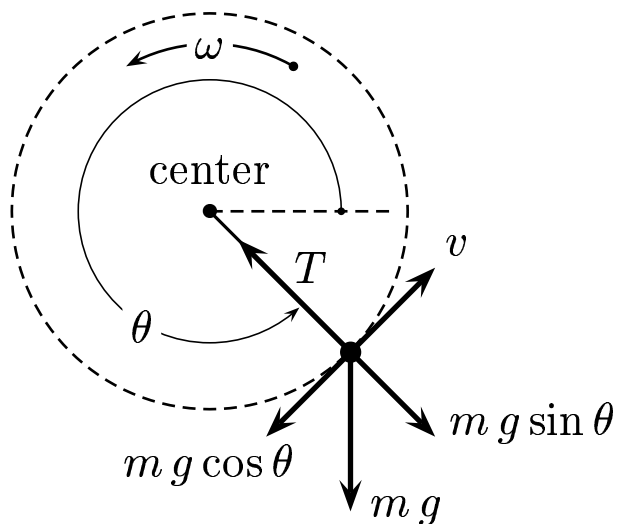


For the counter-clockwise circular motion below, the equation of motion is given by $\vec{T} + m \vec{g} = m \vec{a}_{cp}$. Let T , $m g_{\parallel r} = |m g \sin \theta|$, and a_{cp} be positive definite quantities.



The radial equation is

- A) $T - m g_{\parallel r} = m a_{cp}$.
- B) $T + m g_{\parallel r} = m a_{cp}$.
- C) $m g_{\parallel r} - T = m a_{cp}$.

Explanation: By inspection for the radial equation.

Answer **A**.

06.02-01 Nonuniform Circular Motion 2004-3-24