## Rotational Motion

## Objectives

Differentiate between rotations and revolutions.

Differentiate between rotational velocity and tangential velocity.

Calculate tangential velocity and state its metric unit.


## Rotational Velocity

measures \# of circles per time (spinning rate)
equal for all parts of a given circle
direction is clockwise or counter-clockwise

Unit: rev/sec or rev/min (rpm)
i.e. $\omega=2 \mathrm{rev} / \mathrm{sec}$


## Circular Motion

Axis - center of the circle

Rotate - axis is part of the object object doesn't change position (i.e. spinning)

Revolve - axis is NOT part of the object (could be connected to the axis)

object does change position

## Tangential Velocity

measures actual distance per time along a circular path. (how fast objects are actually moving)


## Assignments



- Begin Chapter 8 Homework \# 1-6

