

## 7.1 Rotational Kinematics

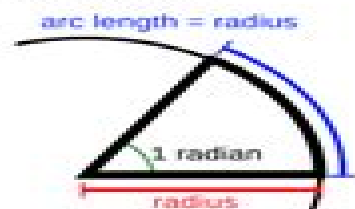
All forces share certain common characteristics when considered by observers in inertial reference frames. (A frame of reference in which a body remains at rest or moves with constant linear velocity unless acted upon by forces)

### Essential Knowledge 3.A.1

An observer in a reference frame can describe the motion of an object using such quantities as position, displacement, distance, velocity, speed, and acceleration.

For rotational motion we define these quantities in terms of radians instead of meters.

### The Radian



Imagine taking the radius of a circle and wrap it around the circumference. It will create an angle whose arc length is equal to the radius. The angle that is created is 1 Radian.

An angle of  $\pi$  radians would have an arc length of half the circumference and a full circumference would have an angle of  $2\pi$  radians.

### Basic Rotational Quantities

**Angular Displacement** - represented by the angle  $\theta$  in radians



**Angular Velocity** - change in angular displacement over time. It can also be calculated from the frequency of the object's rotation.

# Rotational Motion Study Guide

**Siddappa N.Byrareddy**



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