

## Ch 12 HW

Due: 9:30am on Monday, May 2, 2016

You will receive no credit for items you complete after the assignment is due. [Grading Policy](#)

## Angular Motion with Constant Acceleration

## Learning Goal:

To understand the meaning of the variables that appear in the equations for rotational kinematics with constant angular acceleration.

Rotational motion with a constant nonzero acceleration is not uncommon in the world around us. For instance, many machines have spinning parts. When the machine is turned on or off, the spinning parts tend to change the rate of their rotation with virtually constant angular acceleration. Many introductory problems in rotational kinematics involve motion of a particle with constant, nonzero angular acceleration. The kinematic equations for such motion can be written as

$$\theta(t) = \theta_0 + \omega_0 t + \frac{1}{2} \alpha t^2$$

and

$$\omega(t) = \omega_0 + \alpha t.$$

Here, the symbols are defined as follows:

- $\theta(t)$  is the angular position of the particle at time  $t$ .
- $\theta_0$  is the initial angular position of the particle.
- $\omega(t)$  is the angular velocity of the particle at time  $t$ .
- $\omega_0$  is the initial angular velocity of the particle.
- $\alpha$  is the angular acceleration of the particle.
- $t$  is the time that has elapsed since the particle was located at its initial position.

In answering the following questions, assume that the angular acceleration is constant and nonzero:  $\alpha \neq 0$ .

## Part A

True or false: The quantity represented by  $\theta$  is a function of time (i.e., is not constant).

ANSWER:

- ☒ true  
☐ false

Correct

## Part B

True or false: The quantity represented by  $\theta_0$  is a function of time (i.e., is not constant).

ANSWER:

- ☐ true  
☒ false

Correct

Keep in mind that  $\theta_0$  represents an initial value, not a variable. It refers to the angular position of an object at some initial moment.

## Part C

True or false: The quantity represented by  $\omega_0$  is a function of time (i.e., is not constant).

ANSWER:

- ☐ true  
☒ false

Your progress: 96%

# Mastering Physics Chapter 12

**Siddappa N.Byraredy**



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