



Name: _____

Section: _____

Date: _____

Lab Section: _____

Lab 10: Kinematics of a Particle in a Circle

Objective: To understand the relationship between angular displacement, angular velocity, angular acceleration, and the corresponding linear quantities.

Equipment: turntable, stopwatch, vernier caliper, ruler, Newton's cradle, marble, rotational motion apparatus, meter, string.

Pre-Lab Knowledge Questions (Use your PHYSICS textbook!)



1. A boy is sitting on a playground ice sled on a horizontal circular track. At the start, he is at the center of the track. He then starts to rotate with the playground ice sled on the track. He then starts to rotate with the playground ice sled on the track. He then starts to rotate with the playground ice sled on the track. He then starts to rotate with the playground ice sled on the track.
2. Do you think the velocity vector changes as the sled rotates? Explain.

Write your answers to the pre-lab questions in the space provided below.

Warm Up

The turntable rotates about a vertical axis through the center of the turntable. The turntable rotates with a constant angular velocity ω about a vertical axis through the center of the turntable.

Consider the motion of the turntable in the xy -plane. The turntable rotates with a constant angular velocity ω about a vertical axis through the center of the turntable.



1. Express the angular position $\theta(t)$ in terms of the angular velocity ω and the initial angular position θ_0 .

2. What is the magnitude of the angular velocity ω in rad/s if the turntable rotates through 1.00 revolution in 1.00 second?

3. What is the magnitude of the angular acceleration α in rad/s^2 if the turntable starts from rest and reaches a constant angular velocity ω in 1.00 second?

- a. What is the magnitude of the velocity change Δv ?

Gizmo Uniform Circular Motion Answers

Clifford Lane



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