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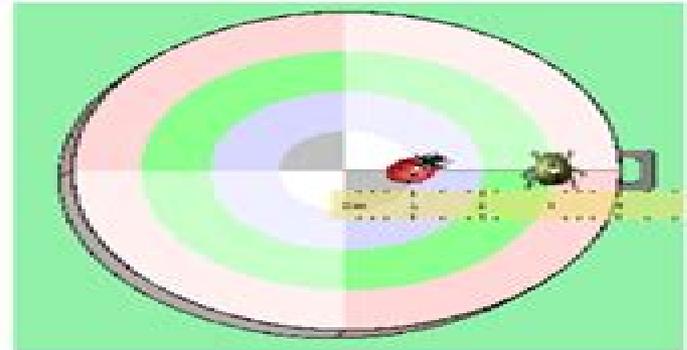
Ladybug Revolution and Rotational Motion

Part 1 - Introduction (start on the Intro Tab):

What is Angular Velocity?

Two bugs are riding on a rotating amusement park ride or merry-go-round. Position the two bugs so that they are positioned 1 meter and 3 meters from the center as shown. This is the Radius of rotation (r).

1. Enter $90^\circ/\text{sec}$ as the angular velocity. This is the number of rotations each second. It will take each bug 4 seconds to make it once around the circle. Note: you can also adjust the speed of the rotating platform by pushing the handle.
 2. Observe the tangential velocity (shown by the green velocity vector) and the acceleration (shown by the red acceleration vector). These quantities are also referred to as linear velocity (v) and radial (or centripetal) acceleration (a_c).



- a. Describe the direction of the velocity and acceleration vectors (2 pts)

The acceleration vector stays constant and points towards the middle. The bug farther away from the center has a large vector pointing toward the center. The velocity vectors both point in the direction they are going and stay instant. The bug furthest from the center has a larger vector

- b. Which bug is moving faster? Explain how you determined this based on your observations. (2 pts)

By the acceleration and velocity vectors it seems like the bug on the outside is moving faster

- c. Explain, in terms of distance traveled, why the two bugs have different linear velocities. (2 pts)

The bug on the outside travels farther because it has to travel a longer diameter around the circle. Therefore when it is on the merry-go-round it has a higher velocity

3. Increase the angular velocity to $180^\circ/\text{sec}$.

- a. Describe the changes in the tangential velocity and acceleration vectors for each bug. (2 pts)

The velocity vectors both increased to double their size. The acceleration also did increase but for the bug on the outside, it seems that it increased to more than double

- b. Do these changes make sense? Explain, based on what you know about linear velocity and centripetal acceleration. (2 pts)

Ladybug Lab Answers

Anthony S. Fauci



Ladybug Lab Answers:

Unveiling the Magic of Words: A Report on "**Ladybug Lab Answers**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Ladybug Lab Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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Ladybug Lab Answers Introduction

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