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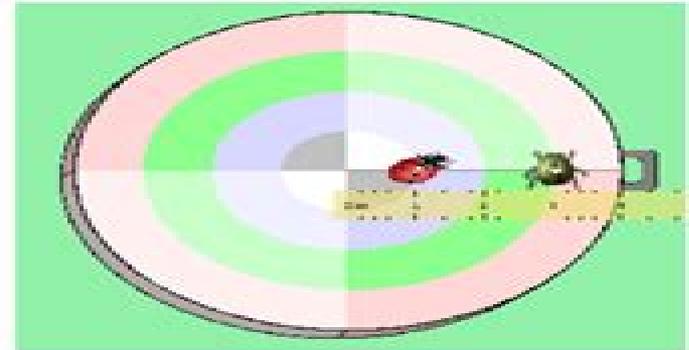
Ladybug Revolution and Rotational Motion

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

Arturo Cuomo



Ladybug Lab Answers:

Adopting the Beat of Appearance: An Mental Symphony within **Ladybug Lab Answers**

In a world eaten by screens and the ceaseless chatter of instantaneous interaction, the melodic elegance and mental symphony created by the prepared word frequently disappear into the back ground, eclipsed by the constant noise and disruptions that permeate our lives. However, situated within the pages of **Ladybug Lab Answers** a stunning fictional treasure brimming with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this fascinating masterpiece conducts readers on a psychological trip, well unraveling the hidden tunes and profound influence resonating within each cautiously crafted phrase. Within the depths of this poignant examination, we can discover the book is central harmonies, analyze their enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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