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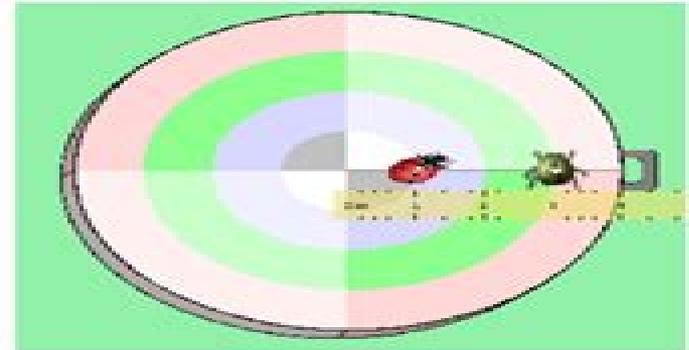
Ladybug Revolution and Rotational Motion

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

Michal Rosen-Zvi



Ladybug Lab Answers:

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Table of Contents Ladybug Lab Answers

1. Understanding the eBook Ladybug Lab Answers
 - The Rise of Digital Reading Ladybug Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ladybug Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ladybug Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ladybug Lab Answers
 - Personalized Recommendations
 - Ladybug Lab Answers User Reviews and Ratings
 - Ladybug Lab Answers and Bestseller Lists
5. Accessing Ladybug Lab Answers Free and Paid eBooks
 - Ladybug Lab Answers Public Domain eBooks
 - Ladybug Lab Answers eBook Subscription Services
 - Ladybug Lab Answers Budget-Friendly Options

6. Navigating Ladybug Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ladybug Lab Answers Compatibility with Devices
 - Ladybug Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ladybug Lab Answers
 - Highlighting and Note-Taking Ladybug Lab Answers
 - Interactive Elements Ladybug Lab Answers
8. Staying Engaged with Ladybug Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ladybug Lab Answers
9. Balancing eBooks and Physical Books Ladybug Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ladybug Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ladybug Lab Answers
 - Setting Reading Goals Ladybug Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ladybug Lab Answers
 - Fact-Checking eBook Content of Ladybug Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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