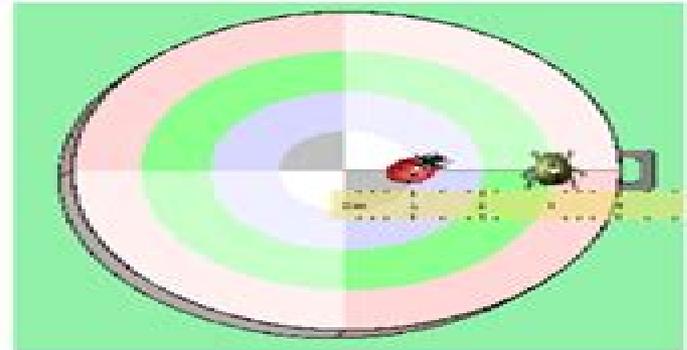# Ladybug Revolution and Rotational Motion

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°/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°/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 in 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)*

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