

Name: _____ Date: _____

Student Exploration: Uniform Circular Motion

Background: circular motion with constant speed is called uniform circular motion. In uniform circular motion, the object moves in a circle.

From the video: <https://www.youtube.com/watch?v=8Bt3t3u3u30> (watching the video)



1. As they go clockwise, is the magnitude of the velocity constant? **constant** (direction is always changing, but the size of the velocity, or what's discussed with the magnitude of the velocity, is always constant, so the magnitude of the velocity is constant.)

2. As you turn, the velocity points path will be constant or **constant** (direction is always changing, so the direction of the velocity is always changing.)

Before working:

The position vector $\vec{r}(t)$ of a particle moving in a circle is always in the direction of the position vector. The position vector is always in the direction of the position vector. The position vector is always in the direction of the position vector.

Circle motion is always in the direction of the position vector. The position vector is always in the direction of the position vector.



3. Give an object's position $\vec{r}(t)$ (in Cartesian coordinates) at the position vector **(0, 0)**.

4. Give the x and y components of $\vec{r}(t)$ when the object is at the position vector **(0, 0)**. **(0, 0)**

5. Give the x and y components of the velocity vector $\vec{v}(t)$ when the object is at the position vector **(0, 0)**. **(0, 0)**

6. Give the x and y components of the velocity vector $\vec{v}(t)$ when the object is at the position vector **(0, 0)**. **(0, 0)**

7. Give the x and y components of the velocity vector $\vec{v}(t)$ when the object is at the position vector **(0, 0)**. **(0, 0)**



Explore Learning Uniform Circular Motion Answers

Menu (Firm) (Fort Collins, Colo.)



Explore Learning Uniform Circular Motion Answers:

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