

Angular and Linear Speed Review

1. A Ferris wheel with a radius of 10 meters makes 1 full revolution every 20 seconds. What is its angular speed?

2. A radar dish rotates 90° in 5 seconds. What is its angular speed?

3. An object rotates at 2 rad/s. How many radians will it rotate through in 12 seconds?

4. A wheel with radius 0.5 meters spins at 6 rad/s. What is the linear speed of a point on its edge?

5. A pendulum swings in an arc of 60° , and the length of the pendulum (radius) is 2 m. How far does the tip travel?

6. A car tire has a radius of 0.3 meters and is moving at a linear speed of 12 m/s. What is the angular speed?