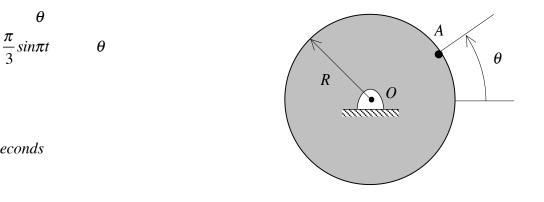
Homework H.2.A

Given: The orientation angle θ for a circular disk of radius R is given by: $\theta(t) = \frac{\pi}{3} \sin \pi t$ (with θ in radians and t in seconds).

Find: Determine the velocity and acceleration vectors for point A on the outer edge of the disk for:

- (a) t = 0 s
- (b) t = 1/3 s

Make sketches of these vectors for the two instants in time noted above.



Use the following parameter in your analysis: R = 0.75 m.