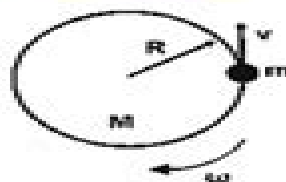


Name: Answers

AP Quiz: Rotational Motion

1. A disk is free to rotate about an axis perpendicular to the disk and passing through its center. If the disk starts from rest and accelerates uniformly at the rate of 5 rad/s^2 for 4 s, what is its angular displacement during this time? (1 pt)

- (A) 10 rad (B) 20 rad (C) 30 rad (D) 40 rad (E) 50 rad



$$\begin{aligned}\omega_0 &= 0 \\ \alpha &= 5 \text{ rad/s}^2 \\ t &= 4\text{s} \\ \Delta\theta &= ?\end{aligned}$$

$$\begin{aligned}\Delta\theta &= \omega_0 t + \frac{1}{2} \alpha t^2 \\ \Delta\theta &= 0 + \frac{1}{2} (5) (4)^2 \\ \Delta\theta &= 40 \text{ rad}\end{aligned}$$

2. There are two people on a merry go round. Person A is 2.3 m from the axis of rotation. Person B is 3.4 m from the axis of rotation. The merry go round moves through an angular displacement of $\pi/4$. What linear displacement (arc length) is covered by both people? (2 pts)

Person A
 $\Delta\theta = \pi/4$
 $r = 2.3 \text{ m}$

Person B
 $\Delta\theta = \pi/4$
 $r = 3.4 \text{ m}$
 $d = \Delta\theta r$

$$d = \Delta\theta r = (\pi/4)(2.3) = 1.81 \text{ m}$$

$$d = (\pi/4)(3.4) = 2.67 \text{ m}$$

3. A disc rotates about an axis through its center according to the function: $\theta(t) = t^3 - 3t^2$

- A) What is the angular displacement of the disc at 3 s? (1 pt)
B) What is the instant angular velocity of the disc at 3 s? (1 pt)
C) What is the instant angular acceleration at 3 s? (1 pt)
D) What is the average angular velocity at 4 s? (1 pt)

A) $\theta(3) = 3^3 - 3(3)^2 = 0 \text{ rad}$

B) $\theta(t) = \omega(t) = 3t^2 - 6t = 3(3)^2 - 6(3) = 9 \text{ rad/s}$

C) $\omega'(t) = \alpha(t) = 6t - 6 = 6(3) - 6 = 12 \text{ rad/s}^2$

D) $\theta(4) = 4^3 - 3(4)^2 = 16 \text{ rad}$

$$\omega_{avg} = \frac{\Delta\theta}{\Delta t} = 4 \text{ rad/s}$$

4. A child pushes, with a constant force, a merry-go-round with a radius of 2.5 m, from rest to an angular velocity of 3 rad/s in 8s. What is the merry-go-round's centripetal acceleration at this point? (2 pts)

$$\begin{aligned}\omega_0 &= 0 \\ \omega_f = 3 \text{ rad/s} &= v_{tan} = (3 \text{ rad/s})(2.5) = 7.5 \text{ m/s} \\ t &= 8\text{s}\end{aligned}$$

$$\begin{aligned}v_{tan} &= 7.5 \text{ m/s} \\ r &= 2.5 \text{ m}\end{aligned}$$

$$a_c = \frac{v^2}{r} = \frac{7.5^2}{2.5} = 22.5 \text{ m/s}^2$$

5. (1 pt)

Two wheels are fixed to each other and are free to rotate about a frictionless axis through their concentric centers. Four forces are exerted tangentially to the wheels. The magnitude of the net torque is:

- A. zero
B. FR
C. 2 FR
D. 4 FR



$$\begin{aligned}\text{①} &= 2RF \text{ (-)} \\ \text{②} &= 2RF \text{ (+)} \\ \text{③} &= 2RF \text{ (+)} \\ \text{④} &= 2FR \text{ (-)}\end{aligned}$$

$$4FR$$

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