

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

$$\omega_{avg} = \frac{\Delta\theta}{\Delta t} = \frac{16}{4} = 4 \text{ rad/s}$$

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



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

$$4FR$$

Answers For Ap Physics Review Rotational Bertrand

Michael Hoelscher



Answers For Ap Physics Review Rotational Bertrand:

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Table of Contents Answers For Ap Physics Review Rotational Bertrand

1. Understanding the eBook Answers For Ap Physics Review Rotational Bertrand
 - The Rise of Digital Reading Answers For Ap Physics Review Rotational Bertrand
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Ap Physics Review Rotational Bertrand
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Ap Physics Review Rotational Bertrand
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Ap Physics Review Rotational Bertrand

- Personalized Recommendations
 - Answers For Ap Physics Review Rotational Bertrand User Reviews and Ratings
 - Answers For Ap Physics Review Rotational Bertrand and Bestseller Lists
5. Accessing Answers For Ap Physics Review Rotational Bertrand Free and Paid eBooks
 - Answers For Ap Physics Review Rotational Bertrand Public Domain eBooks
 - Answers For Ap Physics Review Rotational Bertrand eBook Subscription Services
 - Answers For Ap Physics Review Rotational Bertrand Budget-Friendly Options
 6. Navigating Answers For Ap Physics Review Rotational Bertrand eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Ap Physics Review Rotational Bertrand Compatibility with Devices
 - Answers For Ap Physics Review Rotational Bertrand Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Ap Physics Review Rotational Bertrand
 - Highlighting and Note-Taking Answers For Ap Physics Review Rotational Bertrand
 - Interactive Elements Answers For Ap Physics Review Rotational Bertrand
 8. Staying Engaged with Answers For Ap Physics Review Rotational Bertrand
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Ap Physics Review Rotational Bertrand
 9. Balancing eBooks and Physical Books Answers For Ap Physics Review Rotational Bertrand
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Ap Physics Review Rotational Bertrand
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Answers For Ap Physics Review Rotational Bertrand
 - Setting Reading Goals Answers For Ap Physics Review Rotational Bertrand
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Answers For Ap Physics Review Rotational Bertrand

- Fact-Checking eBook Content of Answers For Ap Physics Review Rotational Bertrand
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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