

## *Chapter 8 Rotational Motion Answers*

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### **Chapter 8 Rotational Motion Answers**

CHAPTER 8: Rotational Motion Answers to Questions 1. The odometer designed for 27-inch wheels increases its reading by the circumference of a 27-inch wheel 27" for every revolution of the wheel. If a 24-inch wheel is used, the odometer will still register 27" for every revolution, but only 24" of linear distance will have been traveled.

### **CHAPTER 8: Rotational Motion - Chariho Regional School ...**

Chapter 8: Rotational Motion Linear speed: distance traveled per unit of time. In rotational motion we have linear speed: depends where we (or an object) is located in the circle. If you ride near the outside of a merry-go-round, do you go faster or slower than if you ride near the middle? It depends on whether "faster" means

### **Chapter 8: Rotational motion - Hunter College**

Rotational Dynamics; Torque Equation 8-25 is the rotational equivalent of Newton's 2nd law for linear motion. Here, the moment of inertia  $I$  plays the same role as the object's mass in  $F = ma$ . It tells us how difficult it is to set an object in rotational motion. In the figure below, the two cylinders have the same masses. However, the

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CHAPTER 8: Rotational Motion Answers to Questions 1. The odometer designed for 27-inch wheels increases its reading by the circumference of a 27-inch wheel 27 "S for every revolution of the wheel. If a 24-inch wheel is used, the odometer will still register for every revolution, but only 24 "S of linear distance will have been traveled.

### **CHAPTER 8: Rotational Motion Answers to Questions**

Chapter 8 pages 869-870 1. The rotational velocity of a merry-go-round is increased at a constant rate from 1.5 rad/s to 3.5 rad/s in a time of 9.5 s.

### **CHAPTER 8 Rotational Motion - foothillfalcons.org**

Physics: Principles with Applications (7th Edition) answers to Chapter 8 - Rotational Motion - Misconceptual Questions - Page 221 6 including work step by step written by community members like you. Textbook Authors: Giancoli, Douglas C. , ISBN-10: 0-32162-592-7, ISBN-13: 978-0-32162-592-2, Publisher: Pearson

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Chapter 8 Rotational Motion 8.1 Purpose In this experiment, rotational motion will be examined. Angular kinematic variables, angular momentum, Newton's 2nd law for rotational motion, torque, and moments of inertia will be explored.

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### **Solutions to Physics: Principles and Problems ...**

Chapter 8: Rotational Motion. If you ride near the outside of a merry-go-round, do you go faster or

slower than if you ride near the middle? It depends on whether “faster” means . a faster linear speed (= speed), ie more distance covered per second, or - a faster rotational speed (=angular speed,  $\omega$ ), i.e. more . rotations or revolutions ...

#### **Chapter 8: Rotational motion - Hunter College**

rotational motion. The center C of the wheel does not rotate relative to the contact point. It undergoes only translational motion with velocity  $v$ . A point P at a distance  $r$  from the center of rotation (point of contact) will undergo a rotation with angular velocity given by eq. 8-9:

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Your pet hamster sits on a record player whose angular speed is constant. If he moves to a point twice as far from the center, then his linear speed

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Rotational Motion 8.1 linear motion versus rotational motion. The motion we have studied so far has referred to linear motion like a car moving. Some motion is circular like the rotation of the tires on the car. Rotational position is given by an angle, measured in radians. m/s rad/sec

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