

Problem Solutions Chapter #8 Giancoli 6th Edition

■ Problem #8:

QUESTION: A rotating merry - go - round makes one complete revolution in 4.0 seconds (a) What is the linear speed of a child seated 1.2 meter from the center? (b) What is her acceleration?

ANSWER: The linear or tangential velocity $V=\omega R$ where $R=1.2$ m is the distance to the axis of rotation. The period of revolution is $T=4.0$ sec/cycle so the frequency $f=1/4$ cycles/sec= 0.25 Hertz so the angular frequency in radians per second is $\omega=2\pi f=1.57$ Rad/s. The linear speed $V=\omega R=1.57$ Rad/s $\times$ 1.2 m =1.9 m/s. The tangential acceleration is zero because it seems ω is constant (and so the angular acceleration is zero). The radial acceleration is $V_p=V^2/R=\omega^2 R=2.96$ m/s² in the radial direction toward the center of the merry-go-round.

$$T = 4.0;$$

$$f = 1 / T;$$

$$\omega = 2 \times \pi \times f$$

$$1.5708$$

$$R = 1.2;$$

$$V = \omega \times R$$

$$1.88496$$

$$a = v^2 / R$$

$$2.96088$$

■ Problem #9

Calculate the angular velocity of the Earth (a) as it orbits the Sun and (b) about its axis.

ANSWER: $T=365$ days/cycle for the Earth going about the Sun. $f=1/T$ is the frequency in cycles/sec and $\omega=2\pi f$ is the angular frequency in Rad/sec and $\omega=1.2 \times 10^{-7}$ Rad/s.

$$T = 365. \times 24 \times 60 \times 60.;$$

$$f = 1 / T;$$

$$\omega = 2 \times \pi \times f$$

$$1.99238 \times 10^{-7}$$

PART B: $T=24$ hours per day and this corresponds to $\omega=7.27 \times 10^{-5}$ Rad/s.

$$T = 24. \times 60 \times 60;$$

$$f = 1 / T;$$

$$\omega = 2 \times \pi \times f$$

$$0.0000727221$$

■ Problem #16

An automobile engine slows down from 4500 rpm to 1200 rpm in 2.5 seconds. Calculate (a) its angular acceleration α assuming it is constant. 2π Rad = 1 Rev

$$\omega f = 1200. \times (2 \times \pi) ;$$

$$\omega 0 = 4500. \times (2 \times \pi) ;$$

$$t = 2.5;$$

$$\alpha = \frac{\omega f - \omega 0}{t}$$

$$-8293.8$$

The minus sign means there is a deceleration or slowing down.

Part (b) Calculate the total number of revolutions it makes in the time $t=2.5$ sec.

ANSWER:

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Table of Contents Giancoli Chapter Answers

1. Understanding the eBook Giancoli Chapter Answers
 - The Rise of Digital Reading Giancoli Chapter Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Giancoli Chapter Answers
 - 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 Giancoli Chapter Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Giancoli Chapter Answers
 - Personalized Recommendations
 - Giancoli Chapter Answers User Reviews and Ratings
 - Giancoli Chapter Answers and Bestseller Lists
5. Accessing Giancoli Chapter Answers Free and Paid eBooks
 - Giancoli Chapter Answers Public Domain eBooks
 - Giancoli Chapter Answers eBook Subscription Services
 - Giancoli Chapter Answers Budget-Friendly Options
6. Navigating Giancoli Chapter Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Giancoli Chapter Answers Compatibility with Devices
 - Giancoli Chapter Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Giancoli Chapter Answers
 - Highlighting and Note-Taking Giancoli Chapter Answers
 - Interactive Elements Giancoli Chapter Answers
8. Staying Engaged with Giancoli Chapter Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Giancoli Chapter Answers
9. Balancing eBooks and Physical Books Giancoli Chapter Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Giancoli Chapter Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Giancoli Chapter Answers
- Setting Reading Goals Giancoli Chapter Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Giancoli Chapter Answers
- Fact-Checking eBook Content of Giancoli Chapter Answers
 - 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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web dec 30 2019 1 insert point mass on faces 2 give fixed support 3 apply acceleration 2g in upward direction 4 solve what you think on this sequence is it give result that what we want december 30 2019 at 12 48 pm peteroznewman subscriber please paste into your reply the url of the webpage where you found the 2g acceleration i hadn t heard of

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web geometry and point mass training manual modal analysis supports any type of geometry solid bodies surface bodies and line bodies the point mass feature can be used the point mass adds mass only no stiffness in a free vibration analysis point masses will decrease the natural frequency in free vibration analyses

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