

*12-28.

A particle travels to the right along a straight line with a velocity $v = [5 - 14 + x^2] \text{ m/s}$, where x is in meters.

Determine its deceleration when $x = 2 \text{ m}$.

SOLUTION

$$v = \frac{-5}{4 + x}$$

$$v \, dv = a \, dx$$

$$dv = \frac{-5 \, dx}{(4 + x)^2}$$

$$\frac{-5}{(4 + x)^2} \cdot \frac{-5 \, dx}{(4 + x)^2} = a \, dx$$

$$a = \frac{-25}{(4 + x)^2}$$

When $x = 2 \text{ m}$

$$a = -0.116 \text{ m/s}^2$$

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Table of Contents Engineering Mechanics 13th Edition Solutions Manual

1. Understanding the eBook Engineering Mechanics 13th Edition Solutions Manual
 - The Rise of Digital Reading Engineering Mechanics 13th Edition Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics 13th Edition Solutions Manual
 - 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 Engineering Mechanics 13th Edition Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics 13th Edition Solutions Manual
 - Personalized Recommendations
 - Engineering Mechanics 13th Edition Solutions Manual User Reviews and Ratings
 - Engineering Mechanics 13th Edition Solutions Manual and Bestseller Lists
5. Accessing Engineering Mechanics 13th Edition Solutions Manual Free and Paid eBooks
 - Engineering Mechanics 13th Edition Solutions Manual Public Domain eBooks
 - Engineering Mechanics 13th Edition Solutions Manual eBook Subscription Services
 - Engineering Mechanics 13th Edition Solutions Manual Budget-Friendly Options
6. Navigating Engineering Mechanics 13th Edition Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Mechanics 13th Edition Solutions Manual Compatibility with Devices
 - Engineering Mechanics 13th Edition Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Mechanics 13th Edition Solutions Manual
 - Highlighting and Note-Taking Engineering Mechanics 13th Edition Solutions Manual
 - Interactive Elements Engineering Mechanics 13th Edition Solutions Manual

8. Staying Engaged with Engineering Mechanics 13th Edition Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Mechanics 13th Edition Solutions Manual
9. Balancing eBooks and Physical Books Engineering Mechanics 13th Edition Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Mechanics 13th Edition Solutions Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Engineering Mechanics 13th Edition Solutions Manual
 - Setting Reading Goals Engineering Mechanics 13th Edition Solutions Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Mechanics 13th Edition Solutions Manual
 - Fact-Checking eBook Content of Engineering Mechanics 13th Edition Solutions Manual
 - 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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