

Problem 1.51

[Computer] Repeat all of Problem 1.50 but using the initial value $\phi_0 = \pi/2$.

Solution

Equation (1.51) is on page 31:

$$\ddot{\phi} = -\frac{g}{R} \sin \phi \quad (1.51)$$

With $R = 5$ m and $g = 9.8$ m/s² and $\phi_0 = \pi/2$, the initial value problem to solve is

$$\ddot{\phi} = -\frac{9.8}{5} \sin \phi, \quad \phi(0) = \frac{\pi}{2}, \quad \phi'(0) = 0$$

$$\ddot{\phi} = -1.96 \sin \phi, \quad \phi(0) = \frac{\pi}{2}, \quad \phi'(0) = 0.$$

Note that $\phi(0) = \pi/2$ is the angle at $t = 0$, and $\phi'(0) = 0$ indicates that the particle starts from rest. To numerically solve this, type

$$s = \text{NDSolve}\left[\left\{\phi''[t] == -1.96 \sin[\phi[t]], \phi[0] == \frac{\pi}{2}, \phi'[0] == 0\right\}, \phi, \{t, 0, 21\}\right]$$

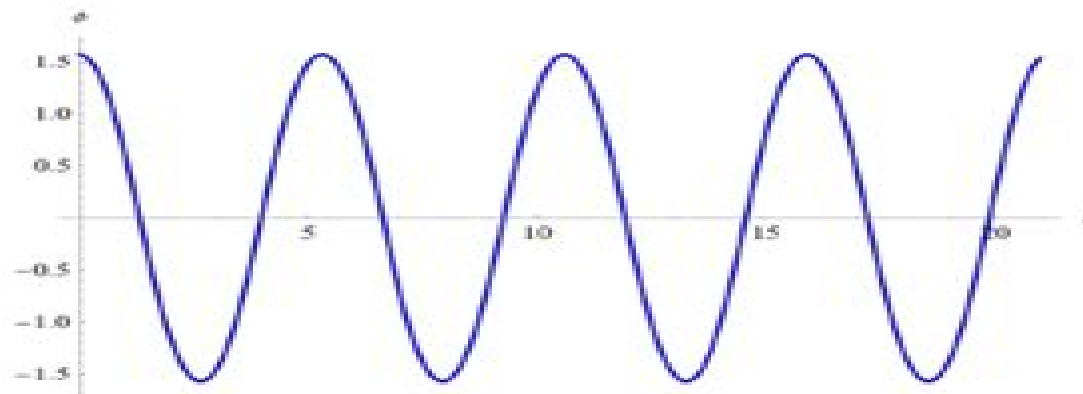
into Mathematica and press Shift+Enter. The output below is given as a result.

$$\left\{\left\{\phi \rightarrow \text{InterpolatingFunction}[\right]\right\}\right\}$$

In order to plot this function, type

$$\text{Plot}\left[\text{Evaluate}[\phi[t] /. s], \{t, 0, 21\}, \text{PlotRange} \rightarrow \text{All}, \text{AxesLabel} \rightarrow \{t, \phi\}, \text{PlotStyle} \rightarrow \text{Blue}\right]$$

into Mathematica and press Shift+Enter to obtain the following graph.



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Table of Contents Mechanics Taylor Solutions

1. Understanding the eBook Mechanics Taylor Solutions
 - The Rise of Digital Reading Mechanics Taylor Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Taylor Solutions
 - 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 Mechanics Taylor Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Taylor Solutions
 - Personalized Recommendations
 - Mechanics Taylor Solutions User Reviews and Ratings

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