

1. A 600 g mass is hung from a vertical spring. It oscillates up and down with a period of 0.500 s. The mass is pushed up from its equilibrium position ($y = 0$) by 10.0 cm and released.
- Write an equation for the vertical position of the mass as a function of time, t , after the mass was released.
 - What is the maximum speed of the mass?
 - What is the spring constant, k , of the spring?
 - What is the maximum net force exerted on the mass?
 - If the mass were given an initial downward speed of 1.00 m/s at $t = 0$, instead of being released from rest, what would be the new answers for parts (b) and (c).



5 pts

5

(a) $\omega = \frac{2\pi}{T} = \frac{2\pi}{0.5 \text{ s}} = 4\pi \text{ s}^{-1} = 12.57 \text{ Hz}$

$y(x) = y_m \cos(\omega t + \phi)$

at $t=0$ $y = y_m \Rightarrow \phi = 0$; $y_m = 0.1 \text{ m}$.

$y = (0.1 \text{ m}) \cos(4\pi t)$

5

(b) $v = dy/dt = -y_m \omega \sin(\omega t)$

$v_m = y_m \omega = (0.1 \text{ m})(4\pi/\text{s}) = 1.26 \text{ m/s}$

5

(c) $k = m \omega^2 = (0.6 \text{ kg})(4\pi/\text{s})^2 = 94.7 \text{ N/m}$

(d) $F_m = k y_m = (94.7 \text{ N/m})(0.1 \text{ m}) = 9.47 \text{ N}$

5

or $F_m = m a_m = m(\omega^2 y_m)$

6

(e)

Now $E = \frac{1}{2} k x_0^2 + \frac{1}{2} M v_0^2$

k does not change, depends only on spring properties
 $E = \frac{1}{2} (94.7 \text{ N/m})(0.1 \text{ m})^2 + \frac{1}{2} (0.6 \text{ kg})(1 \text{ m/s})^2 = 0.774 \text{ J}$.

also $E = \frac{1}{2} m v_m^2$
 $\therefore v_m = \sqrt{2E/m} = \sqrt{\frac{2(0.774 \text{ J})}{0.6 \text{ kg}}} = 1.61 \text{ m/s}$

4

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Table of Contents College Physics 1 Final Exam Solutions

1. Understanding the eBook College Physics 1 Final Exam Solutions
 - The Rise of Digital Reading College Physics 1 Final Exam Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying College Physics 1 Final Exam 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 College Physics 1 Final Exam Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from College Physics 1 Final Exam Solutions
 - Personalized Recommendations
 - College Physics 1 Final Exam Solutions User Reviews and Ratings
 - College Physics 1 Final Exam Solutions and Bestseller Lists
5. Accessing College Physics 1 Final Exam Solutions Free and Paid eBooks
 - College Physics 1 Final Exam Solutions Public Domain eBooks
 - College Physics 1 Final Exam Solutions eBook Subscription Services
 - College Physics 1 Final Exam Solutions Budget-Friendly Options

6. Navigating College Physics 1 Final Exam Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - College Physics 1 Final Exam Solutions Compatibility with Devices
 - College Physics 1 Final Exam Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of College Physics 1 Final Exam Solutions
 - Highlighting and Note-Taking College Physics 1 Final Exam Solutions
 - Interactive Elements College Physics 1 Final Exam Solutions
8. Staying Engaged with College Physics 1 Final Exam Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers College Physics 1 Final Exam Solutions
9. Balancing eBooks and Physical Books College Physics 1 Final Exam Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection College Physics 1 Final Exam Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine College Physics 1 Final Exam Solutions
 - Setting Reading Goals College Physics 1 Final Exam Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of College Physics 1 Final Exam Solutions
 - Fact-Checking eBook Content of College Physics 1 Final Exam 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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