

Question:



A mass of 2.0 kg is attached to the end of a light cord to make a pendulum 5.0 meters in length. The mass is raised to an angle of 53° relative to the vertical, as shown, and released. The speed of the mass at the bottom of its swing is:

- a. 60 m/s
- b. 7.7 m/s
- c. 40 m/s
- d. 6.3 m/s
- e. 10 m/s

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Answer:

The correct answer is *d*. This is a conservation of energy problem, with the gravitational potential energy U of the pendulum bob converted to kinetic energy K as it swings down. Let's consider the lowest position of the pendulum to be $b = 0$:

$$U_i + K_i = U_f + K_f$$

$$mgh + 0 = 0 + \frac{1}{2}mv^2$$

$$v = \sqrt{2gh}$$

We can find the height of the pendulum bob relative to the bottom of its swing by using trigonometry. The length of the short side of the triangle (shown in red) is $L \cos 53^\circ$. The height h is the full length L less this leg of the triangle.

$$h = L - L \cos \theta = 5 - 5 \cos 53^\circ = 2\text{m}$$

We can then use this information in our original formula to determine the velocity at this point:

$$v = \sqrt{2gh} = \sqrt{2(10\text{m/s}^2)(2\text{m})} = 6.3\text{m/s}$$



College Physics Practice Problems With Solutions

John D. Cutnell, Kenneth W. Johnson



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introductory physics classes and are topics Beiser will discuss in this edition Changes to the structure of the book will be made to improve the flow from chapter to chapter

Active Learning in Secondary and College Science Classrooms Joel Michael, Harold I. Modell, 2003-10-17 The working model for helping the learner to learn presented in this book is relevant to any teaching context but the focus here is on teaching in secondary and college science classrooms Specifically the goals of the text are to help secondary and college level science faculty examine and redefine their roles in the classroom define for science teachers a framework for thinking about active learning and the creation of an active learning environment and provide them with the assistance they need to begin building successful active learning environments in their classrooms

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Creativity Robert W. Weisberg, 2006-06-12 How cognitive psychology explains human creativity Conventional wisdom holds that creativity is a mysterious quality present in a select few individuals The rest of us the common view goes can only stand in awe of great creative achievements we could never paint Guernica or devise the structure of the DNA molecule because we lack access to the rarified thoughts and inspirations that bless geniuses like Picasso or Watson and Crick Presented with this view today s cognitive psychologists largely differ finding instead that ordinary people employ the same creative thought processes as the greats Though used and developed differently by different people creativity can and should be studied as a positive psychological feature shared by all humans

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

6. Navigating College Physics Practice Problems With Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - College Physics Practice Problems With Solutions Compatibility with Devices
 - College Physics Practice Problems With Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of College Physics Practice Problems With Solutions
 - Highlighting and Note-Taking College Physics Practice Problems With Solutions
 - Interactive Elements College Physics Practice Problems With Solutions
8. Staying Engaged with College Physics Practice Problems With Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers College Physics Practice Problems With Solutions
9. Balancing eBooks and Physical Books College Physics Practice Problems With Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection College Physics Practice Problems With Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine College Physics Practice Problems With Solutions
 - Setting Reading Goals College Physics Practice Problems With Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of College Physics Practice Problems With Solutions
 - Fact-Checking eBook Content of College Physics Practice Problems With Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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web maples are trees and shrubs that are often planted in parks and along city streets they are good shade trees because their leaves form a thick dome in autumn the leaves turn spectacular colors such as yellow pink orange scarlet and deep purple there are about 200 different species or kinds of maple

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web oct 16 2023 kids encyclopedia facts this page is about the tree for the computer program see maple cas maple latin name acer is a genus of trees or shrubs sometimes they are made a family of their own the aceraceae at other times they are included in the sapindaceae to include them in the sapindaceae is the more modern

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web children will identify a sugar maple children will discover how maple syrup is processed children will taste maple syrup sugar products and graph the results introduction to the lesson today we are going to learn how sweet a tree can be we will find out how sweet treats come from a special tree called a sugar maple first we will visit a

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everywhere in between he is devastated when he outgrows big red but when leo learns of a bicycle donation program he perks up someone who really needs his bike can give it a new life

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web introduction steffen foerster shutterstock com its thick shading foliage in summer and its brilliant coloring in autumn make the maple one of the most popular trees for parks and streets it is also valued as the source of maple sugar and the maple wood used for furniture and building

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web oct 6 2023 maple any of a large genus of shrubs or trees in the family sapindaceae widely distributed in the north temperate zone but concentrated in china maples constitute one of the most important groups of ornamentals for planting in lawns along streets and in

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web oct 16 2023 the tree was introduced into the united kingdom in 1656 and shortly thereafter entered cultivation there it is frequently found in many parks and yards red maple is a good choice of a tree for urban areas when there is ample room for its root system forming an association with arbuscular mycorrhizal fungi can help a rubrum