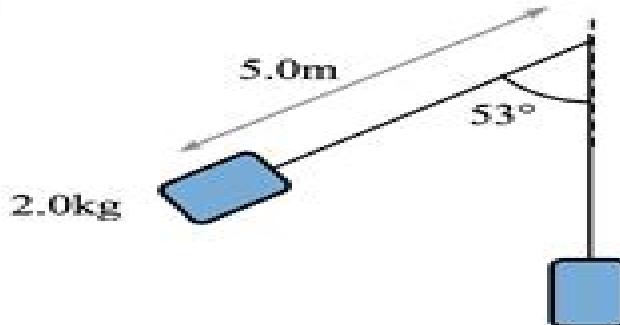


**Question:**

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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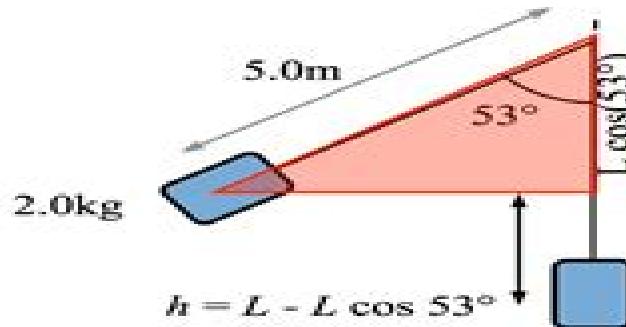
**Answer:**

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.

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

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

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

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**Ohio Wesleyan University**

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**Publication** Michigan State University,1974      **Swarm, Evolutionary, and Memetic Computing** Bijaya Ketan Panigrahi,Swagatam Das,Ponnuthurai Nagaratnam Suganthan,Subhransu Sekhar Dash,2010-12-06 This LNCS volume contains the papers presented at the First Swarm Evolutionary and Memetic Computing Conference SEMCCO 2010 held during December 16 18 2010 at SRM University Chennai in India SEMCCO 2010 marked the beginning of a prestigious international conference series that aims at bringing together researchers from academia and industry to report and review the latest progress in the cutting edge research on swarm evolutionary and memetic computing to explore new application areas to design new bio inspired algorithms for solving specific hard optimization problems and finally to create awareness on these domains to a wider audience of practitioners SEMCCO 2010 received 225 paper submissions from 20 countries across the globe After a rigorous peer review process involving 610 reviews in total 90 fu length articles were accepted for oral presentation at the conference This corresponds to an acceptance rate of 40% and is intended for maintaining the high standards of the conference proceedings The papers included in this LNCS volume cover a wide range of topics in swarm evolutionary and memetic computing algorithms and their real world applications in problems selected from diverse domains of science and engineering

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Fields United States. Office of the Oceanographer of the Navy. Marine Sciences Affairs Staff, National Council on Marine Resources and Engineering Development (U.S.), 1969     Catalogue of Ohio Wesleyan University for ..., Delaware, Ohio Ohio Wesleyan University, 1962     **Catalogue, Books and Journals in Advanced Mathematics** American Mathematical Society, 1978     **Courses and Programs** Iowa State University, 1997     **General Catalog - Texas Tech University** Texas Tech University, 1972     *Chiang Mai University - Bulletin* Mahāwitthayālai Chiang Mai, 2001

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## **Table of Contents 3 Osolved Problems In Physics**

1. Understanding the eBook 3 Osolved Problems In Physics
  - The Rise of Digital Reading 3 Osolved Problems In Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying 3 Osolved Problems In Physics
  - 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 3 Osolved Problems In Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from 3 Osolved Problems In Physics
  - Personalized Recommendations
  - 3 Osolved Problems In Physics User Reviews and Ratings
  - 3 Osolved Problems In Physics and Bestseller Lists
5. Accessing 3 Osolved Problems In Physics Free and Paid eBooks
  - 3 Osolved Problems In Physics Public Domain eBooks
  - 3 Osolved Problems In Physics eBook Subscription Services
  - 3 Osolved Problems In Physics Budget-Friendly Options
6. Navigating 3 Osolved Problems In Physics eBook Formats

- ePub, PDF, MOBI, and More
  - 30solved Problems In Physics Compatibility with Devices
  - 30solved Problems In Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 30solved Problems In Physics
  - Highlighting and Note-Taking 30solved Problems In Physics
  - Interactive Elements 30solved Problems In Physics
8. Staying Engaged with 30solved Problems In Physics
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 30solved Problems In Physics
9. Balancing eBooks and Physical Books 30solved Problems In Physics
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection 30solved Problems In Physics
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 30solved Problems In Physics
- Setting Reading Goals 30solved Problems In Physics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 30solved Problems In Physics
- Fact-Checking eBook Content of 30solved Problems In Physics
  - 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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