

**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  $53^\circ$  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:

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



# College Physics Practice Problems With Solutions

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**Schaum's Outline of Theory and Problems for Students of College Physics** Daniel Schaum, 1942 Schaum's Outline of Beginning Physics II: Electricity and Magnetism, Optics, Modern Physics Alvin Halpern, Erich Erlbach, 1998-06-22 This introductory physics text is suitable for first year undergraduates on physics courses as well as mathematics students needing to brush up on physics

**College Physics** Jerry D. Wilson, 2000 Schaum's Outline of Theory and Problems of Applied Physics Arthur Beiser, 2004 Relativity atomic physics nuclear physics elementary particle physics semiconductors and superconductors are receiving more attention in

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

Creativity Understanding Innovation in Problem Solving Science Invention and the Arts presents the major psychological theories of creativity and illustrates important concepts with vibrant and detailed case studies that exemplify how to study creative acts with scientific rigor Creativity includes Two in depth case studies Watson and Crick s modeling of the DNA structure and Picasso s painting of Guernica serve as examples throughout the text Methods used by psychologists to study the multiple facets of creativity The ordinary thinking or cognitive view of creativity and its challengers How problem solving and experience relate to creative thinking Genius and madness and the relationship between creativity and psychopathology The possible role of the unconscious in creativity Psychometrics testing for creativity and how personality factors affect creativity

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