

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:

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



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