

- 17** A simple pendulum is 1.0 m long and oscillates with simple harmonic motion of angular amplitude 0.050 rad and period 2.0 s.

What is the angular speed of the pendulum bob when the angular displacement is 0.030 rad?

- A** 0.0010 rad s<sup>-1</sup>
- B** 0.020 rad s<sup>-1</sup>
- C** 0.050 rad s<sup>-1</sup>
- D** 0.13 rad s<sup>-1</sup>