

- 16** The buzz of a bee is caused by rapid oscillations of the insect's wings, and takes place at a frequency of 75 Hz. The amplitude of the oscillation of the tip of a bee's wing is 1.0 cm.

What is the maximum speed of the tip of the wing? (Assume that the oscillations are simple harmonic.)

- A** 0.047 m s^{-1} **B** 0.47 m s^{-1} **C** 4.7 m s^{-1} **D** 47 m s^{-1}