

- 10** A sound wave of frequency 400 Hz is travelling in air at a speed of  $320 \text{ m s}^{-1}$ . What is the difference in phase between two points on the wave 0.20 m apart in the direction of travel?

**A**  $\frac{\pi}{5}$

**B**  $\frac{\pi}{4}$

**C**  $\frac{\pi}{2}$

**D**  $\frac{4\pi}{5}$