

- 12** A sound wave of frequency 400 Hz is travelling at a speed of  $320 \text{ m s}^{-1}$ .

What is the phase difference between two points 0.60 m apart in the direction of travel?

**A**  $\frac{\pi}{4} \text{ rad}$

**B**  $\frac{\pi}{2} \text{ rad}$

**C**  $\frac{3\pi}{4} \text{ rad}$

**D**  $\frac{3\pi}{2} \text{ rad}$