

- 12** A sound wave of frequency 400 Hz is travelling at a speed of 320 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 $\frac{3\pi}{2} \text{ rad}$