

- 18** The frequency of a water wave is 400 Hz and its speed is  $36 \text{ m s}^{-1}$ .

What is the phase difference between the motions of two points on the wave that are 0.18 m apart?

**A**  $0.50\pi$

**B**  $1.0\pi$

**C**  $2.0\pi$

**D**  $2.5\pi$