

**25** A progressive wave of frequency 300 Hz is travelling with a speed of  $600 \text{ m s}^{-1}$ .

What is the phase difference between two points on the wave that are a distance of 0.50 m apart?

**A**  $45^\circ$

**B**  $90^\circ$

**C**  $180^\circ$

**D**  $360^\circ$