

- 22** A progressive wave on a wire has a frequency of 10 Hz. Two points on the wire, separated by a distance of 0.25 m, have a phase difference of 22.5° .

What is the maximum speed of the wave?

A 2.5 ms^{-1}

B 10 ms^{-1}

C 20 ms^{-1}

D 40 ms^{-1}