

- 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 m s^{-1} **B** 10 m s^{-1} **C** 20 m s^{-1} **D** 40 m s^{-1}