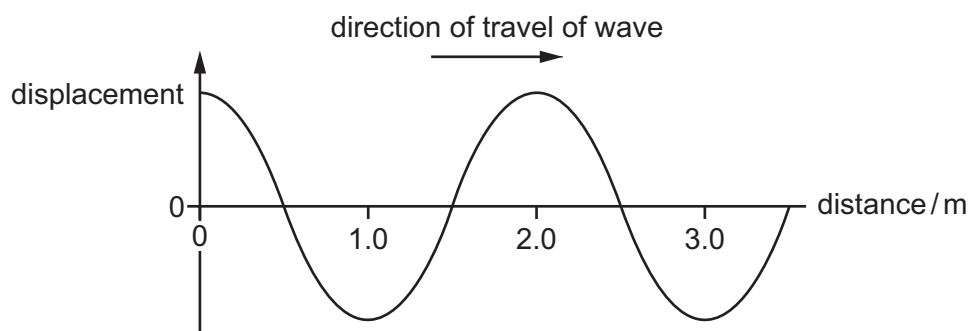


21 Which statement about electromagnetic waves in a vacuum is correct?

- A** Amplitude is inversely proportional to velocity.
- B** Frequency is inversely proportional to wavelength.
- C** Intensity is proportional to amplitude.
- D** Velocity is proportional to wavelength.

22 A transverse wave travels along a rope. The graph shows the variation of the displacement of the particles in the rope with distance along it at a particular instant.



At which distance along the rope do the particles have maximum upwards velocity?

- A** 0.5 m
- B** 1.0 m
- C** 1.5 m
- D** 2.0 m