

16 A transverse wave is travelling along a long rope.

Diagram 1 shows the variation with distance of the displacement of the rope at an instant.

Diagram 2 shows the variation with time of the displacement of a point on the rope.

diagram 1

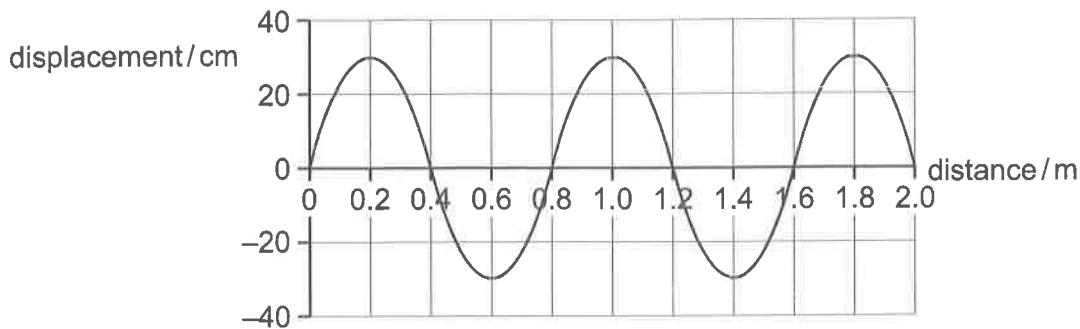
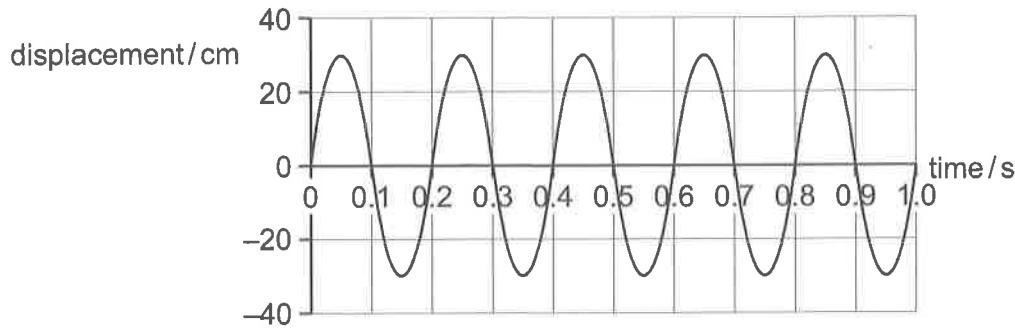


diagram 2



What is the speed of the wave on the rope?

- A** 1.5 ms^{-1} **B** 2.0 ms^{-1} **C** 3.0 ms^{-1} **D** 4.0 ms^{-1}

