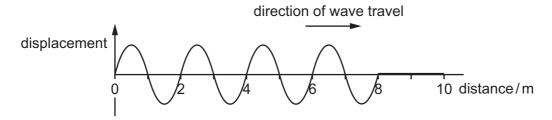
20 A transverse wave is travelling along a rope. The frequency of the wave is $2.0\,\text{Hz}$. The graph shows the variation with distance of the displacement of the wave at time t = 0.



Which diagram shows the position of the wave at time $t = 0.5 \,\mathrm{s}$?

A displacement 0 2 4 6 8 10 distance/m

B displacement 0 2 4 6 8 10 distance/m

c displacement 0 2 4 6 8 10 distance/m

D displacement 0 2 4 6 8 10 distance/m