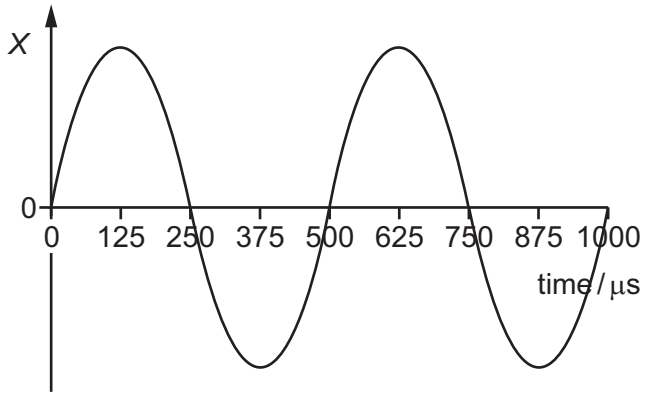
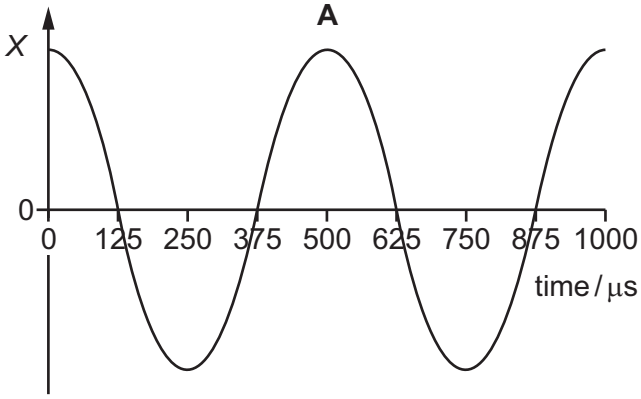
25 The graph shows the variation with time of the displacement *X* of a gas molecule as a continuous sound wave passes through a gas.



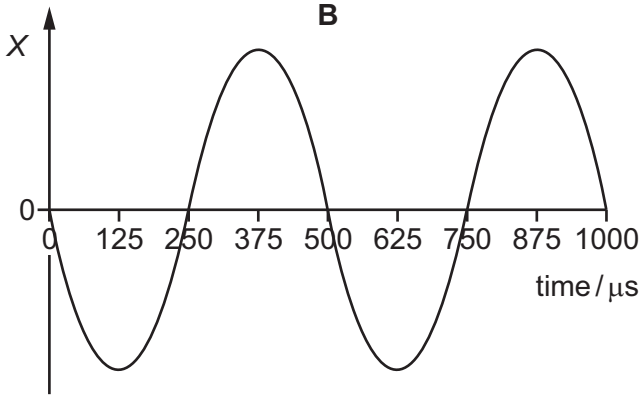
The velocity of sound in the gas is 330 m s^{-1}. All the graphs below have the same zero time as the graph above.

What is the displacement-time graph for a molecule that is a distance of 0.165 m further away from the source of the sound?

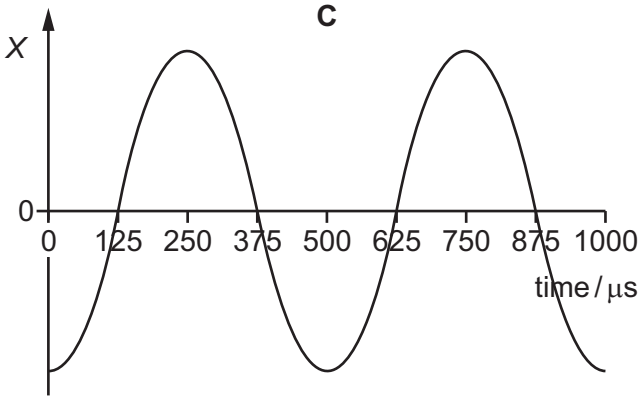
A



B



C



D