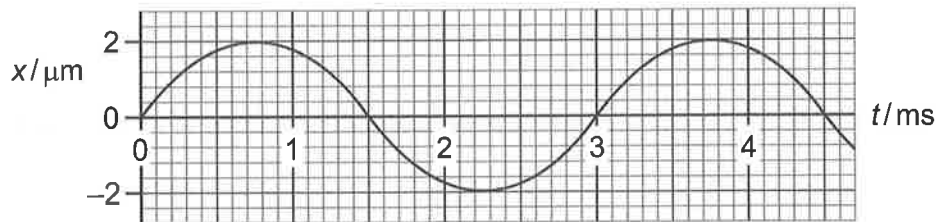


- 13 The graph shows the variation with time t of the displacement x of an air molecule at a point in a sound wave.

The molar mass of air is $2.9 \times 10^{-2} \text{ kg}$.



What is the maximum kinetic energy of the air molecule?

- A** $1.1 \times 10^{-32} \text{ J}$ **B** $4.2 \times 10^{-31} \text{ J}$ **C** $8.5 \times 10^{-31} \text{ J}$ **D** $2.1 \times 10^{-28} \text{ J}$

