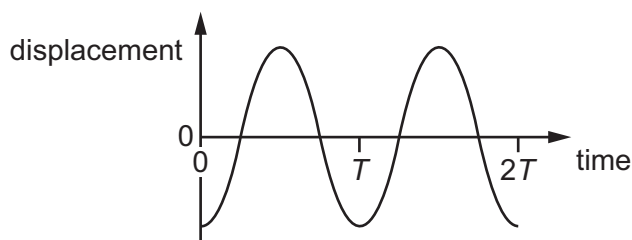


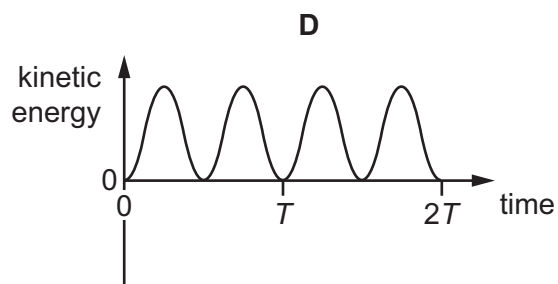
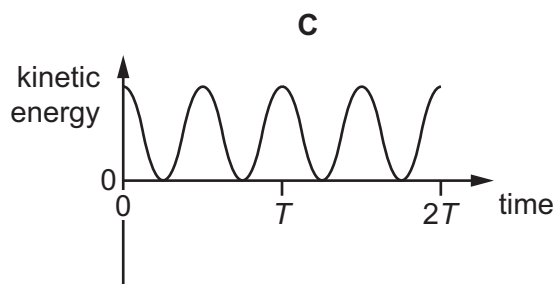
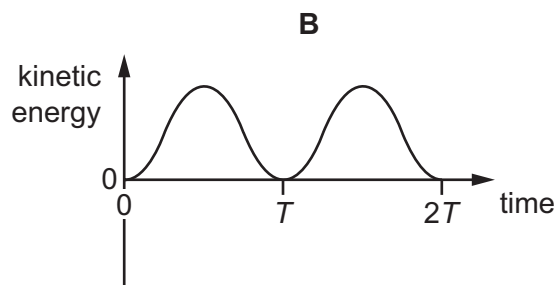
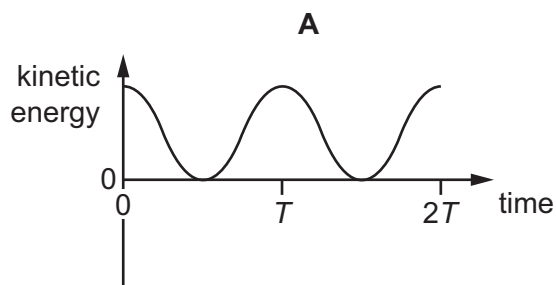
22 Which statement about electromagnetic radiation is correct?

- A** Waves of wavelength 5×10^{-9} m are high-energy gamma rays.
- B** Waves of wavelength 3×10^{-8} m are ultra-violet waves.
- C** Waves of wavelength 5×10^{-7} m are infra-red waves.
- D** Waves of wavelength 9×10^{-7} m are light waves.

23 When sound travels through air, the air particles vibrate. A graph of displacement against time for a single air particle is shown.



Which graph best shows how the kinetic energy of the air particle varies with time?



Space for working