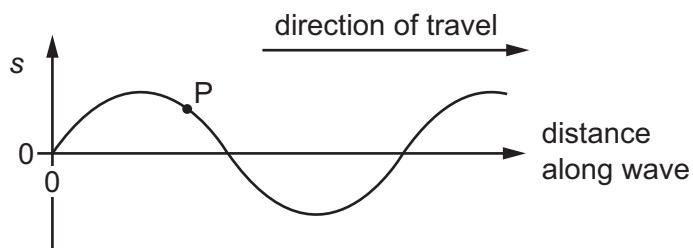
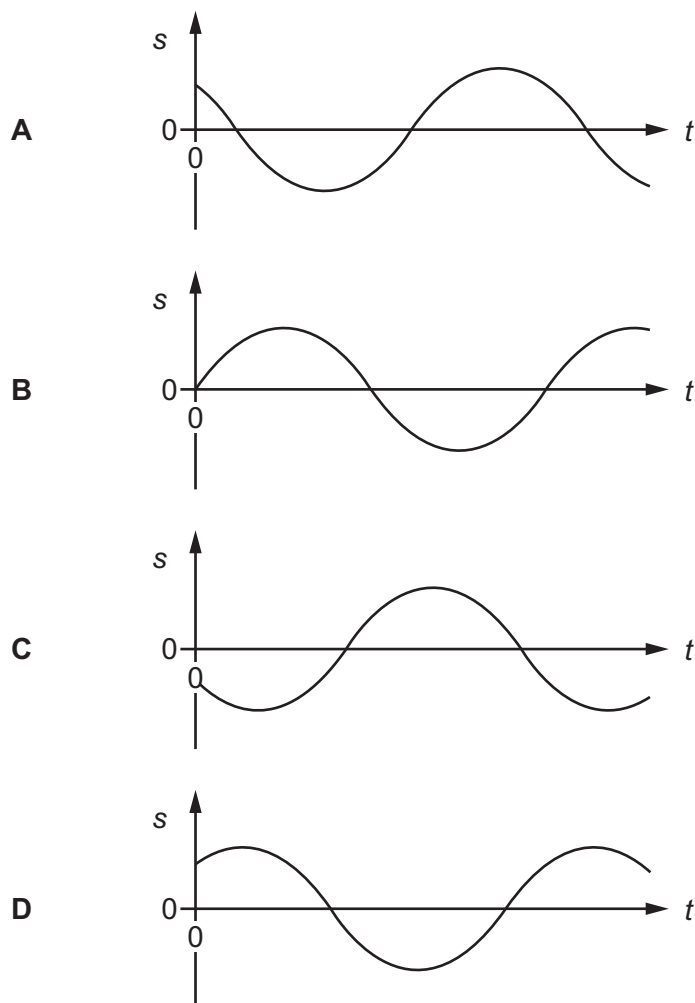


- 24** A wave moves along the surface of water.

The diagram shows the variation of displacement  $s$  with distance along the wave at time  $t = 0$ .



Which graph best shows the variation with time  $t$  of the displacement  $s$  of the point P on the wave?



- 25** In an experiment to determine the wavelength of sound in air, a stationary wave is set up in an air column.

The distance between a node and an adjacent antinode is  $L$ .

What is the wavelength of the sound?

- A**  $\frac{1}{2}L$       **B**  $L$       **C**  $2L$       **D**  $4L$