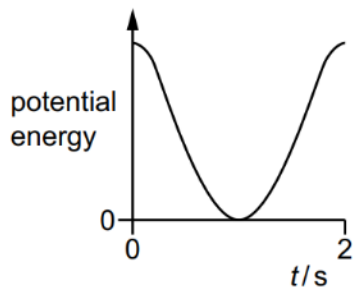
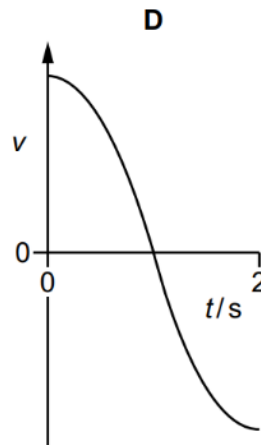
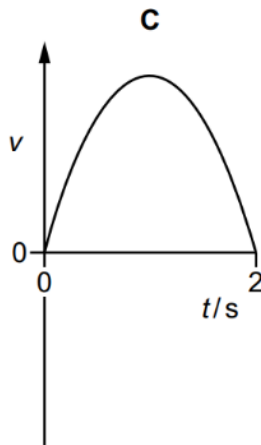
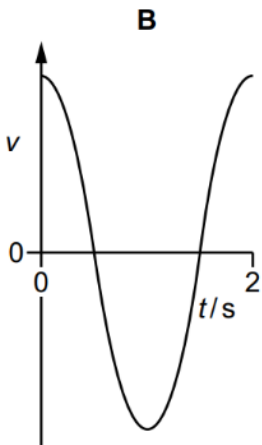
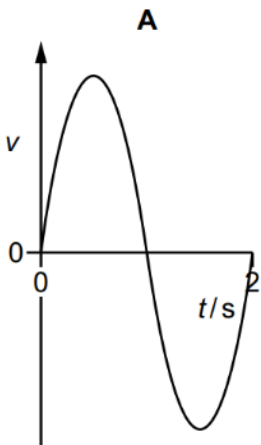


- 16** A particle oscillates with simple harmonic motion. The graph shows the variation, with time  $t$ , of the potential energy of the particle from  $t = 0$  to  $t = 2$  s.



Which graph could represent the variation, with time  $t$ , of the velocity  $v$  of the particle from  $t = 0$  to  $t = 2$  s?



- 17** Two monoatomic ideal gases X and Y are mixed together in a sealed container. The molar mass