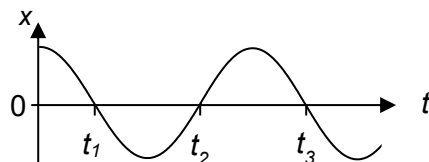
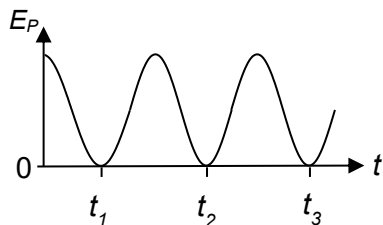


- 10** The oscillations of a mass suspended on a spring are simple harmonic. The variation with time  $t$  of the displacement  $x$  of the mass is shown.

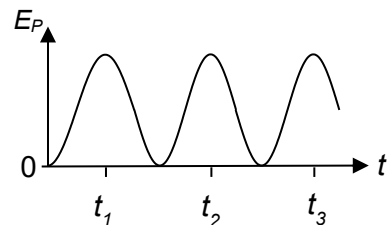


Which graph shows the variation with time  $t$  of the potential energy of the oscillation  $E_P$  of the mass?

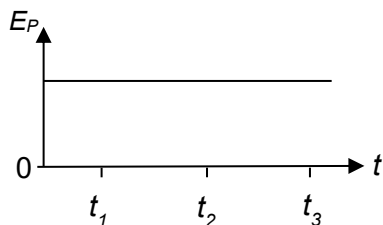
**A**



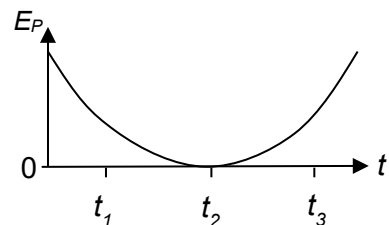
**B**



**C**



**D**



- 11** A student is investigating the frequency of a sound wave by using a microphone connected