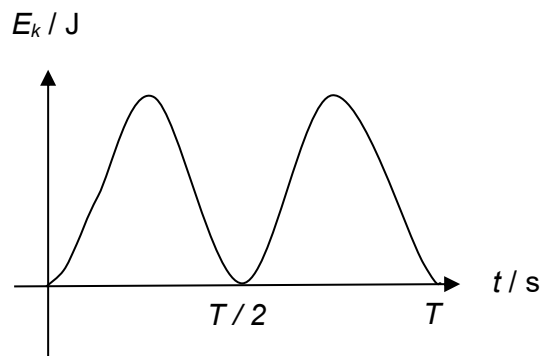


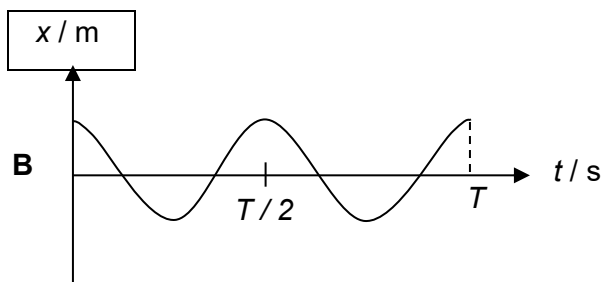
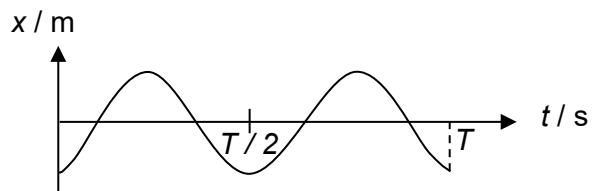
16

The following graph shows the variation of kinetic energy, E_k with time, t of a particle undergoing simple harmonic motion about a point Q . The period of the motion is T .



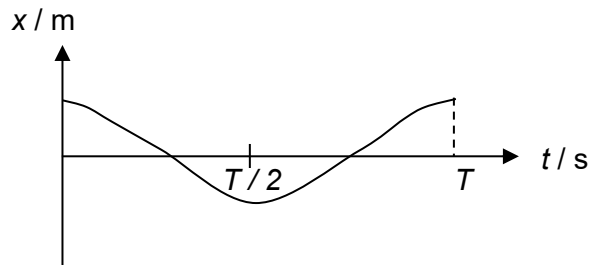
Which of the following graphs best shows the variation with time of its displacement, x from point Q ?

A





C



D

