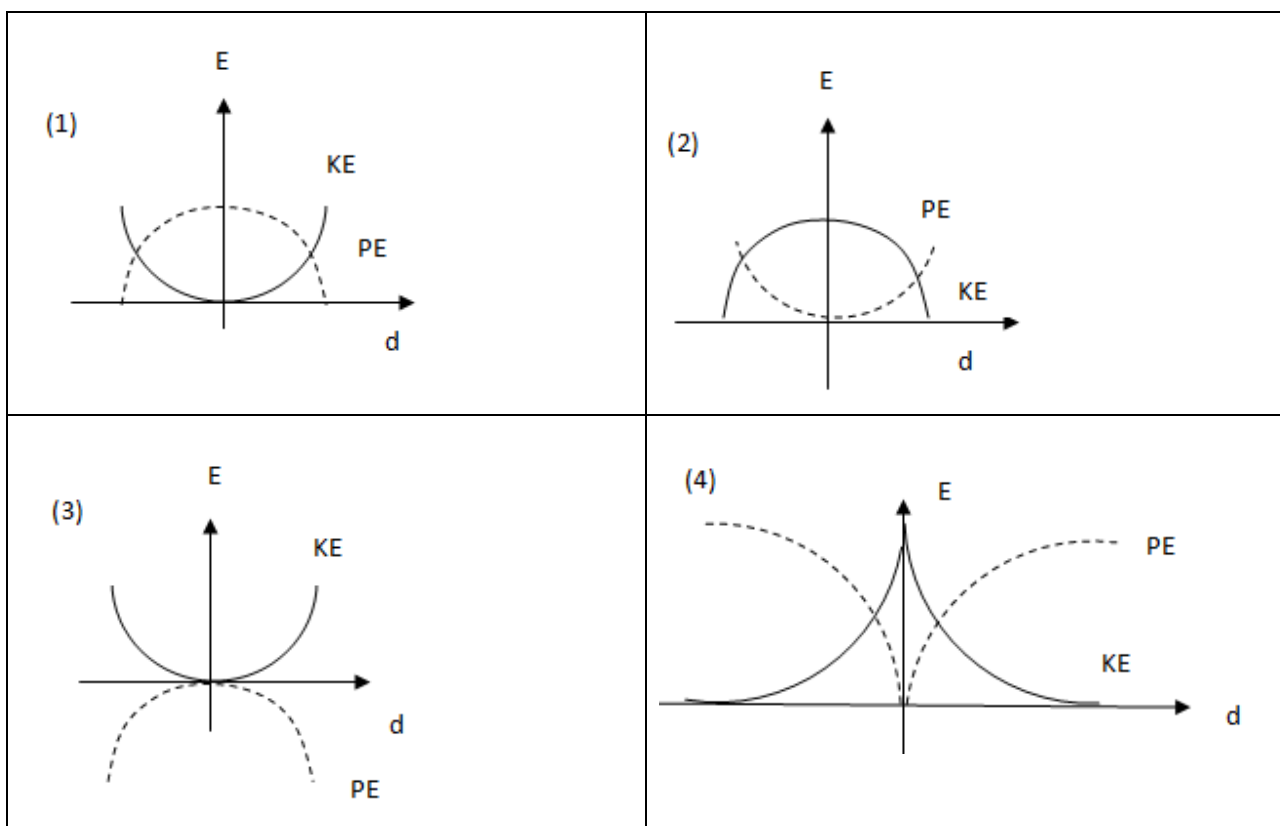




12. For a simple pendulum, a graph is plotted between its kinetic energy (KE) and potential energy (PE) against its displacement d . Which one of the following represents these correctly? (graphs are schematic and not drawn to scale)



Answer: We know that velocity is maximum at the mean position and minimum at two extreme positions. So kinetic energy is maximum at the mean position and minimum at extreme positions. Potential energy is minimum at the mean position and maximum at extreme positions.

So correct choice is option (2)