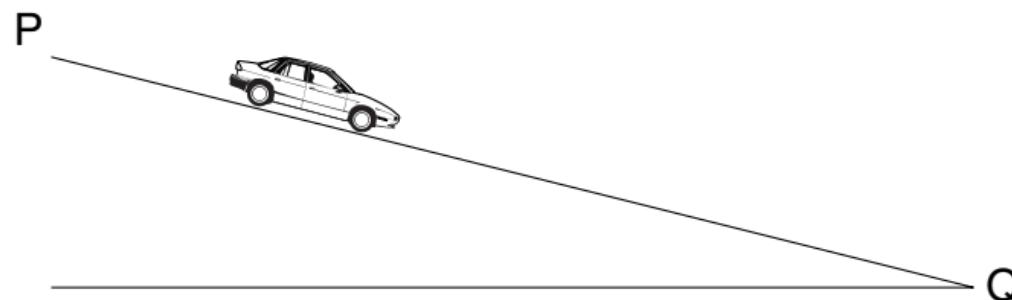


- 17 A car driver adjusts the pressure on a car's brakes so that the car travels at constant speed down a hill from P to Q.



The magnitude of the change in the car's kinetic energy is  $\Delta E_k$ . The magnitude of the change in its gravitational potential energy is  $\Delta E_p$ .

Which statement is correct?

- A**  $\Delta E_k > \Delta E_p$       **B**  $\Delta E_k = \Delta E_p$       **C**  $\Delta E_p > \Delta E_k > 0$       **D**  $\Delta E_k = 0$

- 18 An area of land is on average of 2.0 m below sea level. To prevent flooding, pumps are used to lift