17 The maximum useful output power of a car travelling on a horizontal road is P. The total resistive force acting on the car is kv^2, where v is the speed of the car and k is a constant.

Which equation is correct when the car is travelling at maximum speed?

A $v^3 = \dfrac{P}{k}$ **B** $v^2 = \dfrac{P}{k}$ **C** $v = \left(\dfrac{P}{k}\right)^2$ **D** $v = \left(\dfrac{P}{k}\right)^3$