

- 1 When the brakes are applied on a vehicle moving at speed v , the distance d moved by the vehicle in coming to rest is given by the expression

$$d = kv^2$$

where k is a constant.

What is the unit of k expressed in SI base units?

A m^{-1}s^2

B ms^{-2}

C m^2s^{-2}

D m^{-1}s

- 2 Which list contains one vector quantity and two scalar quantities?