5 Which equation, representing uniformly accelerated motion in a straight line, can be determined using **only** the definition of acceleration?

A $s = ut + \frac{1}{2}at^2$

B $s = \frac{1}{2}(u + v)t$

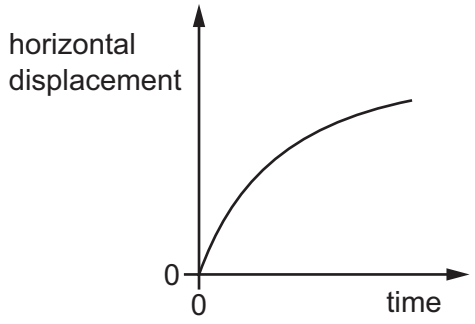
C $v = u + at$

D $v^2 = u^2 + 2as$

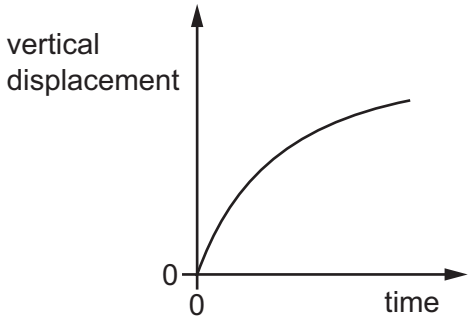
6 An object moves from rest with uniform velocity horizontally and uniform acceleration vertically.

Which graph showing the variation with time of the displacement of the object from its initial position is correct?

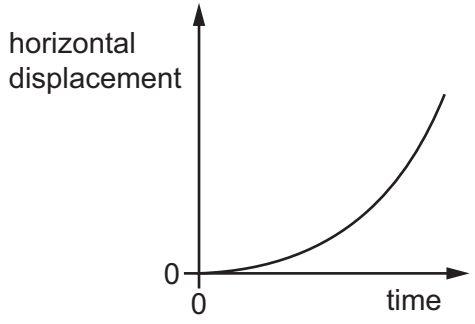
A



B



C



D