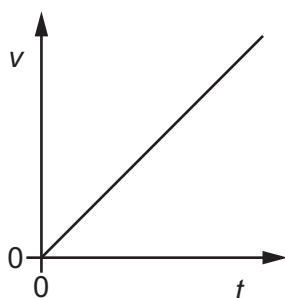
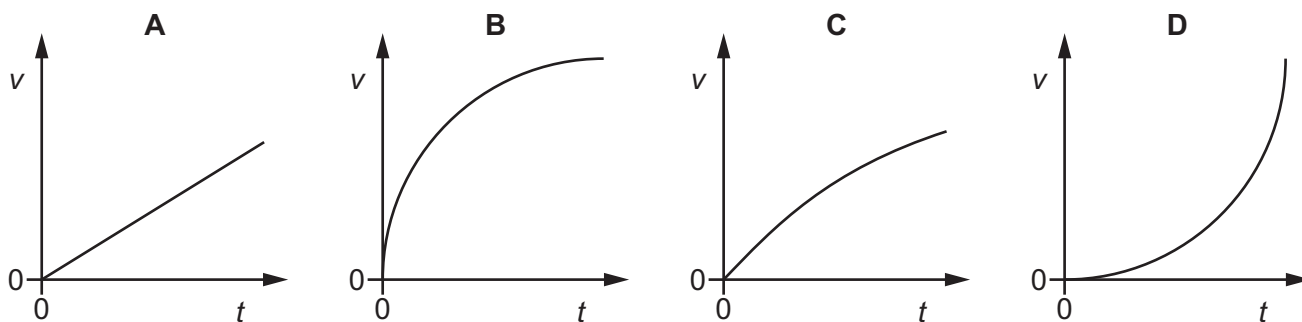


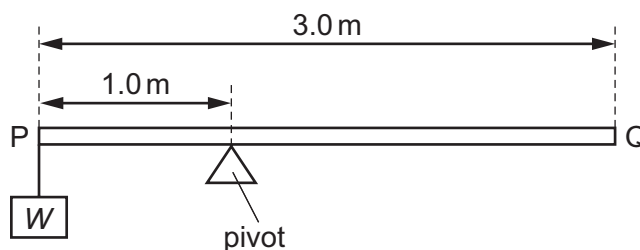
- 11 An object falls freely from rest in a vacuum. The graph shows the variation with time  $t$  of the velocity  $v$  of the object.



Which graph, using the same scales, represents the object falling in air?



- 12 The diagram shows a uniform beam PQ. The length of the beam is 3.0 m and its weight is 50 N. The beam is supported on a pivot 1.0 m from end P. A load of weight  $W$  is hung from end P and the beam is in equilibrium.



What is the value of  $W$ ?

- A** 25 N      **B** 50 N      **C** 75 N      **D** 100 N