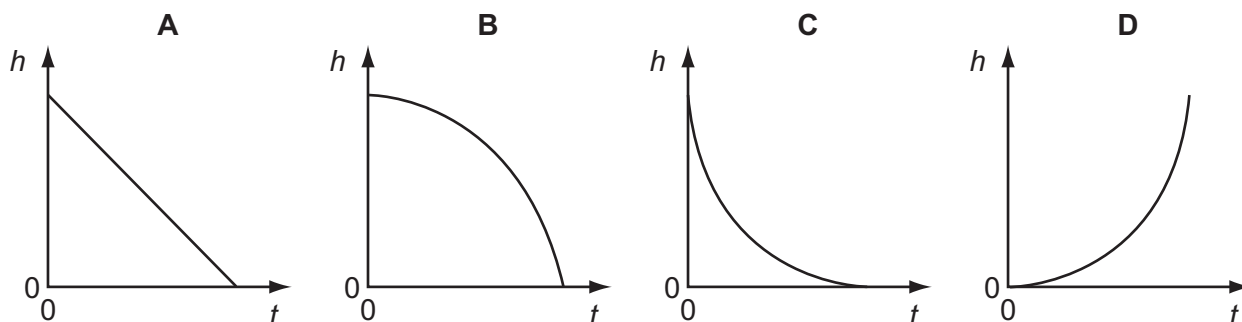
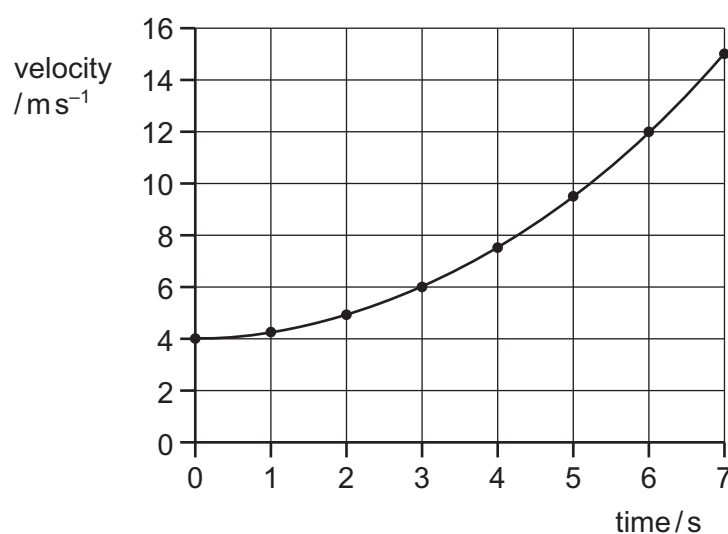


- 8 A small steel ball falls freely under gravity after being released from rest.

Which graph best represents the variation of the height  $h$  of the ball with time  $t$ ?



- 9 The diagram shows a velocity-time graph for a vehicle.



The vehicle, moving at  $4.0 \text{ ms}^{-1}$ , begins to accelerate at time = 0.

What is the vehicle's acceleration at time = 3.0 s?

- A  $0.67 \text{ ms}^{-2}$     B  $1.0 \text{ ms}^{-2}$     C  $1.3 \text{ ms}^{-2}$     D  $2.0 \text{ ms}^{-2}$

Space for working