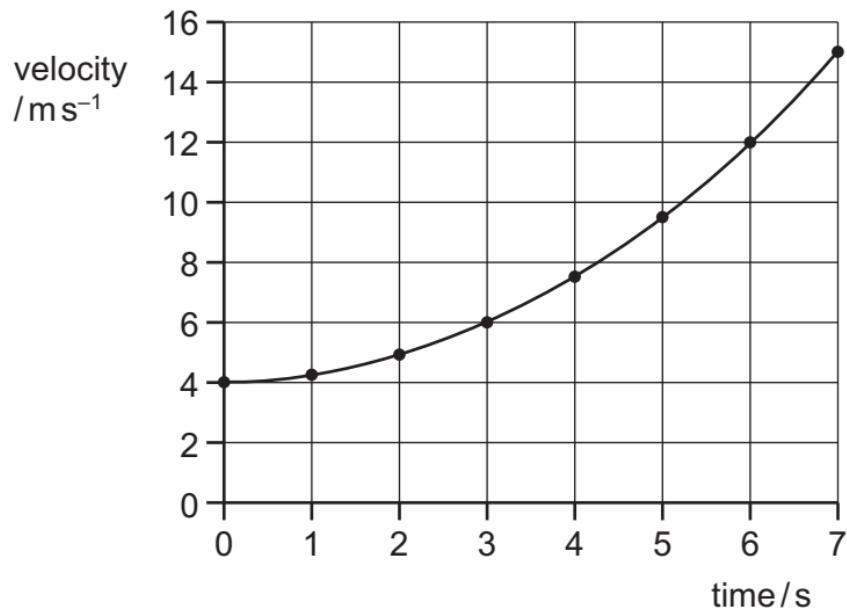


- 8 The diagram shows a velocity-time graph for a vehicle.



The vehicle, moving at  $4.0\text{ m s}^{-1}$ , 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  $2.0\text{ ms}^{-2}$

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