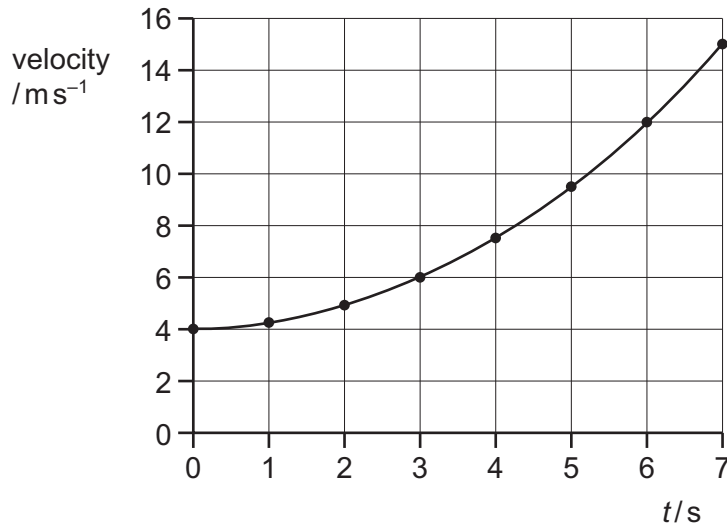


- 6 The graph shows the variation with time  $t$  of the velocity of a vehicle moving in a straight line.



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

What is the vehicle's acceleration at time  $t = 3.0 \text{ s}$ ?

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