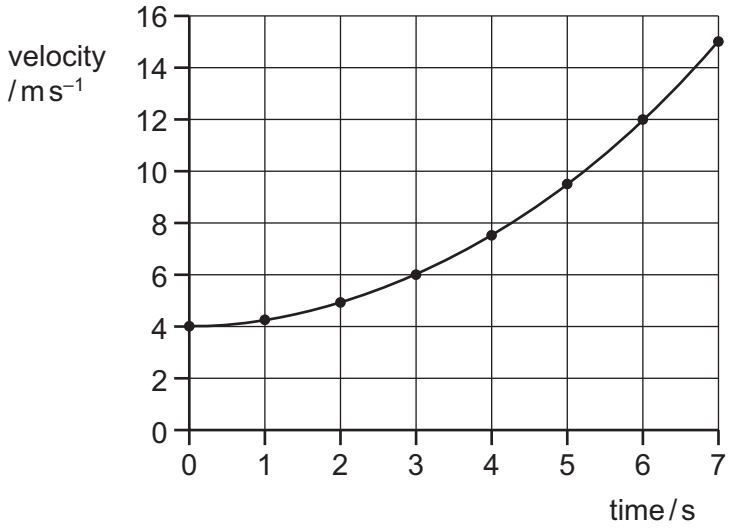
14 The diagram shows a velocity-time graph for a vehicle.



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

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

A $0.67\,m\,s^{-2}$ **B** $1.0\,m\,s^{-2}$ **C** $1.3\,m\,s^{-2}$ **D** $2.0\,m\,s^{-2}$

15 Atmospheric pressure at sea level has a value of 100 kPa.
The density of sea water is $1020\,kg\,m^{-3}$.

At what depth in the sea would the total pressure be 110 kPa?

A 1.0 m **B** 9.8 m **C** 10 m **D** 11 m

Space for working