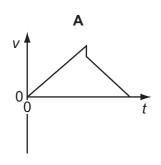
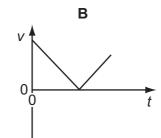
8 A bicycle brakes so that it undergoes uniform deceleration from a speed of $8\,\mathrm{m\,s^{-1}}$ to $6\,\mathrm{m\,s^{-1}}$ over a distance of $7\,\mathrm{m}$.

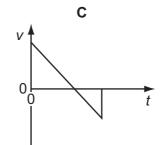
If the deceleration of the bicycle remains constant, what further distance will it travel before coming to rest?

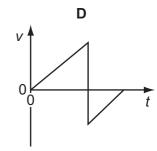
- **A** 7 m
- **B** 9m
- **C** 16 m
- **D** 21 m
- **9** A ball is released from rest above a horizontal surface. It bounces once and is caught.

Which graph represents the variation with time *t* of the velocity *v* of the ball?









Space for working