to re	est over a period of 5 s.	
(a)	Find the time for which the car is accelerating.	[2]
		•••••
		•••••
(b)	Sketch the velocity–time graph for the motion of the car, showing the key points.	[2]
(c)	Find the average speed of the car during its motion.	[2]
		•••••
		•••••
		•••••
		•••••

A car starts from rest and moves in a straight line with constant acceleration for a distance of  $200\,\text{m}$ , reaching a speed of  $25\,\text{m}\,\text{s}^{-1}$ . The car then travels at this speed for  $400\,\text{m}$ , before decelerating uniformly