9	A c	A cyclist travels along a straight horizontal road between house A and house B .		
	a ve	e cyclist starts from rest at A and moves with constant acceleration for 20 seconds, reaching elocity of $15\mathrm{ms^{-1}}$. The cyclist then moves at this constant velocity before decelerating at $\mathrm{ms^{-2}}$, coming to rest at B .		
	(a)	Find the time, in seconds, for which the cyclist is decelerating.	[1]	
	(b)	Sketch a velocity-time graph for the motion of the cyclist between A and B . [Your sketch need not be drawn to scale; numerical values need not be shown.]	[1]	
	The	e total distance between A and B is 1950 m.		
	(c)	Find the time, in seconds, for which the cyclist is moving at constant velocity.	[2]	