1.	A car is moving along a straight road.	
	• At time $t = 0$ , the speed of the car is $18 \mathrm{m  s^{-1}}$	
	• The car decelerates at a constant rate for 5 seconds from time $t = 0$ , reducing its speed from $18 \mathrm{m  s^{-1}}$ to $V \mathrm{m  s^{-1}}$	
	• The car then continues at a constant speed of $V \mathrm{ms^{-1}}$ for 15 seconds	
	• The car then accelerates at a constant rate for 5 seconds, increasing its speed from $V\mathrm{ms^{-1}}$ to $16\mathrm{ms^{-1}}$	
	(a) Sketch a speed-time graph for the motion of the car from $t = 0$ to $t = 25$ seconds.	(2)
	Between $t = 0$ to $t = 25$ seconds, the car travels a total distance of 325 m.	
	(b) Find the value of $V$ .	(4)
	(a) Find the decoloration of the con	(4)
	(c) Find the deceleration of the car.	(2)