

Question		Scheme	Marks	AOs
1(a)		Speed = $\frac{8}{3}$ oe (m s ⁻¹)	B1	1.1b
			(1)	
1(b)		Average speed = $\frac{16+8}{10}$	M1	3.1a
		2.4 (m s ⁻¹)	A1	1.1b
			(2)	
1(c)			B1 Shape	1.1b
			B1ft figs	1.1b
			(2)	
1(d)(i)		The velocity (or speed or direction of motion) (of car) changes	B1	2.4
1(d)(ii)		In reality this cannot occur instantaneously	B1	3.5b
			(2)	
(7 marks)				
Notes:				
1a	B1	Accept 2.7 or better. Must be positive		
1b	M1	Clear attempt to find $\frac{\text{sum of two distances}}{10}$ (must be positive)		
	A1	cao		
1c	B1	Two horizontal lines, one above and one below the t -axis. B0 if solid vertical line is included at $t = 6$ and/or 10		
	B1ft	Graph could be reflected in the t -axis giving, -2 and $\frac{8}{3}$ on the v -axis, ft on their $\frac{8}{3}$		
1di	B1	Any equivalent statement		
1dii	B1	Any equivalent statement		