7			$v = 3.5t - 0.5t^2 \Rightarrow \frac{dv}{dt} = 3.5 - t$ When $t = 8$, $a = 3.5 - 8 = -4.5$ And $v = 3.5 \times 8 - 0.5 \times 8^2 = -4$ Either "Velocity is negative and decreasing, so the speed is increasing". Or "As both the velocity and acceleration are negative, the speed is increasing" or similar	**M1** **A1** **B1** **A1** **[4]**	**3.1b** **2.1** **3.1b** **3.2a**	Attempt to differentiate to find a Evaluating a when $t = 8$ Evaluating v when $t = 8$ Argued from negative a and v	Allow A1 for establishing that $a < 0$ from correct expression without evaluating. Allow B1for establishing $v < 0$ from correct expression without evaluating.
			Special case When $t = 8$, $v = 3.5 \times 8 - 0.5 \times 8^2 = -4$ Evaluating v either side of $t = 8$ Statement referring to correct values	**B1** **B1** **B1**		Evaluating v when $t = 8$ Two correct values Argued from correct working	Method is not a full argument so max 3/4 marks.

t	7	7.5	7.9	8	8.1	8.5	9
v	0	-1.875	-3.555	-4	-4.455	-5.88	-9