20	$(v=)\ 3t^2 - 9 \times 2t + 33$			5	M1	for differentiating at least 2 terms correctly
	$(a=)\ 3 \times 2t - \text{'18'}$ or $(t=) -\frac{-18}{2\times 3}\left(=\frac{18}{6}\right)$	$(v=)3\left[(t-3)^2-(3)^2\right](+33)$ **or** $(v=)3\left[(t-3)^2-(3)^2(+11)\right]$			M1	dep ft must be a two term linear equation **or** for the use of $(t=)-\frac{b}{2a}$ **or** for a **correct** first step for completing the square on at least a two term quadratic
	$6t - 18 = 0$ **or** $t = 3$	$(v=)3\left[(t-3)^2-(3)^2\right]+33$ **or** $(v=)3\left[(t-3)^2-(3)^2+11\right]$			M1	dep on at least M2 for equating their acceleration to 0 **or** for a **correct** method for completing the square on at least a two term quadratic
	$3\times'3'^{2}-18\times'3'+33$	$(v=)3(t-3)^2+6$ **or** $(v=)3\left[(t-3)^2+2\right]$			M1	dep on at least M2 for substituting their t into v **or** for a seeing a **correct** simplified expression after completing the square
			6		A1	
						Total 5 marks