Question		on	Answer	Marks	AO	Guidance		
7	(a)		x = 14t	B1	1.1b	must be $x = \dots$ or seen as the		
						first component of the vector.		
						Do not award for an expression	$(\overline{a}, \underline{a}, 2, \overline{a})$	
						that adds a vector to a scalar	SC1 for $\left \begin{array}{c} 7t - 4.9t^2 + 5 \\ 1 \end{array} \right $ or	
							(14t)	
			$y = 7t - \frac{1}{2}gt^2 + 5$	M1	1.1b	allow without +5, or if -5 seen	$(14t - 4.9t^2 + 5)$	
			-			Do not award for an expression	$\left(7t \right)$	
						that adds a vector to a scalar		
			So the position vector is $\begin{pmatrix} 14t \\ 7t - 4.9t^2 + 5 \end{pmatrix}$	Al	2.5	Must be a single vector.		
						Accept $\frac{1}{2}g$ in final answer		
						Accept $14t \mathbf{i} + (7t - 4.9t^2 + 5) \mathbf{j}$		
•				[3]			I	
7	(b)		Lands when $y = 0$					
			$7t - 4.9t^2 + 5 = 0$	M1	3.1b	Award for correct quadratic or an attempt to find value of <i>t</i> when		
						their quadratic $y = 0$		
			t = 1.95	A1	1.1b	cao		
			gives $x = 14t = 27.3$ m	B1	1.1b	FT their <i>t</i> and their linear expressi	on for <i>x</i>	
						ISW where candidates find the dis	stance from the point of projection	
				[3]				