

Question	Scheme	Marks	AOs
3(a)	Differentiate wrt t	M1	1.1b
	$12t + 4 \text{ (m s}^{-2}\text{)}$	A1	1.1b
		(2)	
3(b)	Integrate v wrt t	M1	1.1b
	$x = 2t^3 + 2t^2 + t$	A1	1.1b
	75 (m)	A1	1.1b
		(3)	

(5 marks)

Notes:

3(a)	M1	At least two powers decreasing by 1
	A1	Correct expression
3(b)	M1	Integrate, with at least two powers increasing by 1 (allow if only two terms integrated)
	A1	Correct expression
	A1	cao