

A level Applied Paper 3B Mechanics Practice Paper M13 MARK SCHEME

Question 1

Question Number	Scheme	Marks
(a)	$240 = \frac{1}{2}(u + 34)10$	M1 A1
	n = 14	A1
		(3
(b)	$34 = 14 + 10\alpha \implies \alpha = 2$	M1 A1
	$120 = 14t + \frac{1}{2} \times 2 \times t^2$	M1 A1
	$r^2 + 14r - 120 = 0$	
	Solving, $\ell = -20$ or 6	DMII
	t=6	A1
	OR	200
	$34 = 14 + 10a \implies a = 2$	MI A1
	$v^2 = 14^2 + 2 \times 2 \times 120 \implies v = 26$	
	AND 26=14+2r	M1 A1
	t = 6	DMI AI
		(6
		[9
	Notes for Question	
	First M1 for a complete method to produce an equation in u only.	
Q (a)	First A1 for a correct equation. $(u^2 - 48u + 476 = 0$ oe is possible). Second A1 for $u = 14$.	
Q (b)	First M1 for an equation in a only. (M0 if $v = 34$ when $s = 120$ is used) First A1 for $a = 2$. (This may have been found in part (a)) Second M1 for a 3-term quadratic equation in t only, allow sign errors (must have found a value of a . (M0 if $v = 34$ when $s = 120$ is used) Second A1 for a correct equation. Third M1 dependent on previous M1 for solving for t . Third A1 for $t = 6$ OR First M1 for an equation in a only. First A1 for $a = 2$. (This may have been found in part (a))	
	Second M1 for a complete method to obtain an equation in t only, allow sign errors. (must have found a value of a) Second A1 for a correct equator. Third M1 dependent on previous M1 for solving for t. Third A1 for t = 6	

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