



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

## **Question 1**

Question Number	Scheme	Mark
(a)	$240 = \frac{1}{2}(u + 34)10$ $u = 14$	M1 A1 A1 (3)
(b)	$34 = 14 + 10a \Rightarrow a = 2$ $120 = 14t + \frac{1}{2} \times 2 \times t^2$ $t^2 + 14t - 120 = 0$ Solving, $t = -20$ or $6$ $t = 6$	M1 A1 M1 A1 DM1 A1
	<b>OR</b> $34 = 14 + 10a \Rightarrow a = 2$ $v^2 = 14^2 + 2 \times 2 \times 120 \Rightarrow v = 26$ AND $26 = 14 + 2t$ $t = 6$	M1 A1 M1 A1 DM1 A1
		(6)
		[9]
<b>Notes for Question</b>		
Q (a)	First M1 for a complete method to produce an equation in $u$ only. First A1 for a correct equation. ( $u^2 - 48u + 476 = 0$ oe is possible). Second A1 for $u = 14$ .	
Q (b)	<b>EITHER</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 $t = 6$  <b>OR</b> 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 equation. Third M1 dependent on previous M1 for solving for $t$ . Third A1 for $t = 6$	

# M13 Busmt Sptz0 Mark Scheme

**Victor M. Corman**



## **M13 Busmt Sptz0 Mark Scheme:**

## Reviewing **M13 Busmt Sptz0 Mark Scheme**: Unlocking the Spellbinding Force of Linguistics

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