



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

## **Question 1**

| Question Number           | Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Mark                        |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| (a)                       | $240 = \frac{1}{2}(u + 34)10$<br>$u = 14$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | M1 A1<br>A1<br>(3)          |
| (b)                       | $34 = 14 + 10a \Rightarrow a = 2$<br>$120 = 14t + \frac{1}{2} \times 2 \times t^2$<br>$t^2 + 14t - 120 = 0$<br>Solving, $t = -20$ or $6$<br>$t = 6$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | M1 A1<br>M1 A1<br>DM1<br>A1 |
|                           | <b>OR</b><br>$34 = 14 + 10a \Rightarrow a = 2$<br>$v^2 = 14^2 + 2 \times 2 \times 120 \Rightarrow v = 26$<br>AND $26 = 14 + 2t$<br>$t = 6$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | M1 A1<br>M1 A1<br>DM1 A1    |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (6)                         |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [9]                         |
| <b>Notes for Question</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |
| Q (a)                     | First M1 for a complete method to produce an equation in $u$ only.<br>First A1 for a correct equation. ( $u^2 - 48u + 476 = 0$ oe is possible).<br>Second A1 for $u = 14$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |
| Q (b)                     | <b>EITHER</b><br>First M1 for an equation in $a$ only. (M0 if $v = 34$ when $s = 120$ is used)<br>First A1 for $a = 2$ . (This may have been found in part (a))<br>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)<br>Second A1 for a correct equation.<br>Third M1 dependent on previous M1 for solving for $t$ .<br>Third A1 for $t = 6$<br><br><b>OR</b><br>First M1 for an equation in $a$ only.<br>First A1 for $a = 2$ . (This may have been found in part (a))<br>Second M1 for a complete method to obtain an equation in $t$ only, allow sign errors. (must have found a value of $a$ )<br>Second A1 for a correct equation.<br>Third M1 dependent on previous M1 for solving for $t$ .<br>Third A1 for $t = 6$ |                             |

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web a three nucleotide sequence of dna or mrna that specifies a particular amino acid or termination signal the basic unit of

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