

# M1 Chapters 1 to 4 Mark Scheme

## Question 1 (M1 GCE June 2017 Q1)

1	$(15i + j) + (5qj - pj) + (-3pj - qj) = 0$ $3p - 5q = 15$ $p + q = 1$ $p = 2.5 \quad q = -1.5$	M1 M1 A1 M1 A1 A1
	Notes	6
	<p>First M1 for equating the sum of the three forces to zero (can be implied by subsequent working).</p> <p>Second M1 for equating the sum of the <math>i</math> components to zero AND the sum of the <math>j</math> components to zero OR to produce TWO equations, each one being in <math>p</math> and <math>q</math> ONLY.</p> <p>First A1 for TWO correct equations (in any form).</p> <p>N.B. It is possible to obtain TWO equations by using <math>\lambda(3p - 5q - 15) = \mu(p + q - 1)</math> with TWO different pairs of values for <math>\lambda</math> and <math>\mu</math>, with one pair not a multiple of the other e.g. <math>\lambda=1, \mu=1</math> AND <math>\lambda=1, \mu=2</math>.</p> <p>Third M1 (independent) for attempt (either by substitution or elimination) to produce an equation in either <math>p</math> ONLY or <math>q</math> ONLY.</p> <p>Second A1 for <math>p = 2.5</math> (any equivalent form, fractions do not need to be in lowest terms).</p> <p>Third A1 for <math>q = -1.5</math> (any equivalent form, fractions do not need to be in lowest terms).</p>	

## Question 2 (M1 GCE June 2017 Q5)

5	$T - 0.5g = 0.5a$ $15 - T - 0.75g = 0.75a$ <p>(OR: <math>15 - 0.5g - 0.75g = 1.25a</math>)</p> $(a = 2.2 \text{ m s}^{-2})$ $T = 6 \text{ N}$	M1 A1 M1 A1  M1 A1
	Notes	6
	<p>First M1 for an equation of motion for either <math>P</math> or <math>Q</math> with usual rules i.e. correct no. of terms, dimensionally correct but condone sign errors</p> <p>First A1 for a correct equation (allow <math>T</math> replaced by <math>-T</math> and/or <math>a</math> replaced by <math>-a</math>)</p> <p>Second M1 for another equation of motion (for either <math>P</math> or <math>Q</math> or whole system) with usual rules as above</p> <p>Second A1 for a correct equation (allow <math>T</math> consistently replaced by <math>-T</math> and/or <math>a</math> consistently replaced by <math>-a</math>)</p> <p>Third M1 for solving two THREE term equations of motion for <math>T</math></p> <p>Third A1 for <math>6 \text{ (N)}</math>. Must be positive but allow a change from <math>-6</math> to <math>6</math>, if they have consistently used <math>-T</math> instead of <math>T</math>.</p>	

# M1 2013 Mark Scheme Mei

**Anthony S. Fauci**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

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