Paper: 1MA1/3F				
Question	**Working**	**Answer**	**Mark**	**Notes**
11 (a) **Q1**		11	M1 A1	substitutes $v = 2$ eg $4 \times 2 + 3$ or $8 + 3$ cao
(b)		$v = \frac{T-3}{4}$	M1 A1	correct first step to rearrange by isolating $4v$ or dividing each term by 4, eg $T - 3 = 4v$ fully correct answer

Paper: 1MA1/3F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
21 **Q2**	$a = \frac{p+9}{3}$	M1 A1	for correct first step to rearrange eg $p + 9 = 3a - 9 + 9$ or $\frac{p}{3} = \frac{3a-9}{3}$ oe **or** answer ambiguously shown eg $a = p + 9 \div 3$ or given as $\frac{p+9}{3}$ oe oe	May be seen in different equivalent forms but must be carried out, not just intention seen.

Paper: 1MA1/3F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
23 (a)	25	M1	for $(T =)\ 4 \times (-3)^2 - 11$ or $4 \times (-3)^2 = 36$	Can accept missing brackets
		A1	cao	
(b)	$p = \frac{d-4}{3}$ oe	M1	for a correct first step, eg. $d - 4 = 3p$ or $\frac{d}{3} = p + \frac{4}{3}$ or for $\frac{d-4}{3}$ as answer	May be in unsimplified form, eg $d - 4 = 3p + 4 - 4$
Q3		A1	for $p = \frac{d-4}{3}$ oe	

Paper: 1MA1/1F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
21 (a)	6 or –6	M1	for $12^2 + 2 \times -3 \times 18$ (= 36)	Terms may be partially evaluated.
Q4		A1	for 6 or –6, accept ±6	Only one value is required for full marks
(b)	$s = \frac{v^2 - u^2}{2a}$	M1	for subtracting u^2 from both sides or dividing all terms by $2a$ as the first step	Must see this step carried out, not just the intention shown
		A1	$s = \frac{v^2 - u^2}{2a}$ oe	

Paper: 1MA1/2F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
19 (a)	8	M1	for a correct first step eg $3x - 12 = 12$ **or** $3(x - 4) \div 3 = 12 \div 3$	
		A1	cao	
(b)	$3b(3 - b)$	M1	for $3(3b - b^2)$ **or** $b(9 - 3b)$ **or** $3b$(two term linear expression)	
Q5		A1	cao	

Paper: 1MA1/3F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
28 **Q6**	$g = 2T^2 - 6$	M1 M1 A1	for $T^2 = \frac{g+6}{2}$ **or** $\sqrt{2} \times T = \sqrt{g+6}$ (dep) for $T^2 \times 2 = g + 6$ **or** $\left(\sqrt{2} \times T\right)^2 = g + 6$ oe for $g = 2T^2 - 6$ oe	 Can only award this mark if the first M mark has been awarded.

Paper: 1MA1/3F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
19 **Q7**	$x = \frac{y-4}{2}$	M1 A1	for correct first step to rearrange eg $y - 4 = 2x + 4 - 4$ or $\frac{y}{2} = \frac{2x+4}{2}$ or ambiguously shown eg $x = y - 4 \div 2$ or answer given as $\frac{y-4}{2}$ oe	May be seen in different equivalent forms but must be carried out, not just intention seen. Could be shown as a flow diagram but must have correct inverse operations

Paper: 1MA1/1F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
30 (a) **Q8**	$q = \frac{p-7}{6}$	M1 A1	for a correct first step, showing a method of subtraction of 7 from both sides or division of all terms by 6 eg $p - 7 = 6q + 7 - 7$ **or** $\frac{p}{6} = \frac{6q}{6} + \frac{7}{6}$ oe for $q = \frac{p-7}{6}$ **or** $q = \frac{p}{6} - \frac{7}{6}$	 Allow $1\frac{1}{6}$ for $\frac{7}{6}$ Award for answer without "$q =$"
(b)	m^6	B1	cao	