

1	$g = 2T^2 - 6$	M1	for $T^2 = \frac{g+6}{2}$ or $\sqrt{2} \times T = \sqrt{g+6}$	Can only award this mark if the first M mark has been awarded.
		M1	(dep) for $T^2 \times 2 = g + 6$ or $(\sqrt{2} \times T)^2 = g + 6$ oe	
		A1	for $g = 2T^2 - 6$ oe	

2	(a)	6 or -6	M1	for $12^2 + 2 \times -3 \times 18 (= 36)$	Terms may be partially evaluated. Only one value is required for full marks
			A1	for 6 or -6, accept ± 6	

3	(a)	-13	M1	for substitution eg 3×5 and 4×-7 or 15 and -28	$3 \times 5 (= 15)$ and $4 \times -7 (= -28)$ may be seen separately but both must be seen for the award of M1 35 and $4-7$ do not get the mark unless multiplication is shown eg $35 = 15$ is evidence of multiplication and should not be seen as choice eg $y = (T - 3x) \div 4$
	(b)		5	M1	
			A1	cao	