Using the Nth Term of Quadratic Sequences			
$u_n = n^2 + 3n - 5$	$u_n = 3n^2 - n + 1$	$u_n = n^2 - 2n$	$u_n = n^2 + an - b$
(a)	(a)	(a)	(a)
Find the value of $u_4$	Find the value of $u_6$	Find the 9 <sup>th</sup> term of the sequence.	Find the value of $u_5$ in terms of $a$ and $b$ .
23	103	63	25 + 5a - b
(b)	(b)	(b)	(b)
Find the difference between the $6^{th}$ term and the $7^{th}$ term.	Find the sum of the $9^{th}$ term and the $10^{th}$ term.	Find an expression for the $(n+1)^{th}$ term.	Find the value of $u_7$ in terms of $a$ and $b$ .
16	526	$n^2 - 1$	49 + 7 <i>a</i> − <i>b</i>
(c)	(c)	(c)	(c)
A term of the sequence is $65$ Find the value of $n$ .	A term of the sequence is $103$ Find the value of $n$ .	Find an expression for the difference between the $n^{th}$ and the $(n + 1)^{th}$ term.	Given that $u_5 = 25$ and $u_7 = 70$ , find the values of $a$ and $b$ .
(n+10)(n-7) = 0 $n = 7$	(3n+17)(n-6) = 0 $n = 6$	2n - 1	a = 4 $b = 7$