

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^{th} term of the sequence.	Find the value of u_5 in terms of a and 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 .
(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 .