

Fill in the Blanks

Nth Term of a Quadratic Sequence

Sequence	5	8	13	20
First Difference		3	5	7
Second Difference		2	2	
$\boxed{1} n^2$	1	4	9	16
Sequence minus n^2	4	4	4	4
Linear nth term	+4			
Quadratic nth term	$n^2 + 4$			

Sequence	12	15	20	27
First Difference		3	5	7
Second Difference		2	2	
$\boxed{1} n^2$	1	4	9	16
Sequence minus n^2	+11	+11	+11	+11
Linear nth term	+11			
Quadratic nth term	$n^2 + 11$			

Sequence	0	3	8	15
First Difference		3	5	7
Second Difference		2	2	
$\boxed{1} n^2$	1	4	9	16
Sequence minus n^2	-1	-1	-1	-1
Linear nth term	-1			
Quadratic nth term	$n^2 - 1$			

Sequence	7	13	23	37
First Difference		6	10	14
Second Difference		4	4	
$\boxed{2} n^2$	2	8	18	32
Sequence minus n^2	5	5	5	5
Linear nth term	+5			
Quadratic nth term	$2n^2 + 5$			

Sequence	-1	5	15	29
First Difference		6	10	14
Second Difference		4	4	
$\boxed{2} n^2$	2	8	18	32
Sequence minus n^2	-3	-3	-3	-3
Linear nth term	-3			
Quadratic nth term	$2n^2 - 3$			

Sequence	11	20	35	56
First Difference		9	15	21
Second Difference		6	6	
$\boxed{3} n^2$	3	12	27	48
Sequence minus n^2	8	8	8	8
Linear nth term	+8			
Quadratic nth term	$3n^2 + 8$			

