Fill in the Blanks — Nth Term of a Quadratic Sequence

Table 1

Sequence	2	7	14	23
First Difference		5	7	9
Second Difference		2	2	
1 n^2	1	4	9	16
Sequence minus n^2	1	3	5	7
Linear nth term	$2n - 1$			
Quadratic nth term	$n^2 + 2n - 1$			

Table 2

Sequence	7	14	25	40
First Difference				
Second Difference				
$\boxed{}$ n^2				
Sequence minus n^2				
Linear nth term				
Quadratic nth term				

Table 3

Sequence	-1	10	27	50
First Difference				
Second Difference				
$\boxed{}$ n^2				
Sequence minus n^2				
Linear nth term				
Quadratic nth term				

Table 4

Sequence	6	8	12	18
First Difference				
Second Difference				
$\boxed{}$ n^2				
Sequence minus n^2				
Linear nth term				
Quadratic nth term				

Table 5

Sequence	2.5	8	14.5	22
First Difference				
Second Difference				
0.5 n^2	0.5	2	4.5	8
Sequence minus n^2				
Linear nth term				
Quadratic nth term				

Table 6

Sequence	3	3	1	-3
First Difference				
Second Difference				
$\boxed{}$ n^2				
Sequence minus n^2				
Linear nth term				
Quadratic nth term				