Fill in the Blanks

Nth Term of a Quadratic Sequence

Sequence	2	2	7		14		2	3
First Difference		5		5 7		7		
Second Difference		2 2		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	$n^2 + 2n - 1$							

Sequence	-1		10		27		50		
First Difference	1		1 1		.7 2		3		
Second Difference				6		6			
$3 n^2$	3		12		27		48		
Sequence minus n^2	_	4	-2		0		2		
Linear nth term	2n - 6								
Quadratic nth term	$3n^2 + 2n - 6$								

Sequence	2.5		8		14.5		22	
First Difference	5		.5 6		5.5 7.		.5	
Second Difference			1		1			
0.5 n^2	0.5		2		4.5		8	
Sequence minus n^2	2		6		10		14	
Linear nth term	4n - 2							
Quadratic nth term	$0.5n^2 + 4n - 2$							

Sequence	7		14		25		40	
First Difference			7 1		.1 1		5	
Second Difference		•		4		4		
$2 n^2$	2		8		18		32	
Sequence minus n^2	5		6		7		8	
Linear nth term	n+4							
Quadratic nth term	$2n^2 + n + 4$							

Sequence	6	١	8		12		1	.8
First Difference			2 4		4 6		5	
Second Difference			2		2			
$1 n^2$	1		4		9		16	
Sequence minus n^2	5	ı	4		3		2	
Linear nth term	-n + 6							
Quadratic nth term	$n^2 - n + 6$							

Sequence	3		3		1		-3	
First Difference			0		-2 -		4	
Second Difference	•		-2		-2			
-1 n^2	-1		-4		-9		-16	
Sequence minus n^2	4	•	7		10		13	
Linear nth term	3n + 1							
Quadratic nth term	$-n^2 + 3n + 1$							