Silver Wilf : to identify number sequences and to calculate the nth term using times table support

Finding the n^{th} term of a sequence

Name:
Date:

			Difference	n^{th} term	*Extension: 10^{th} term*
Q1	*Times table of the 'difference'*				
	Sequence	**3, 5, 7, 9, 11…**	*2*	***2n + 1***	*21*

			Difference	n^{th} term	*Extension: 10^{th} term*
Q2	*Times table of the 'difference'*				
	Sequence	**5, 8, 11, 14, 17…**	*3*	***3n + 2***	*32*

			Difference	n^{th} term	*Extension: 10^{th} term*
Q3	*Times table of the 'difference'*				
	Sequence	**8, 13, 18, 23, 28…**	*5*	***5n + 3***	*53*

			Difference	n^{th} term	*Extension: 10^{th} term*
Q4	*Times table of the 'difference'*				
	Sequence	**6, 9, 12, 15, 18…**	*3*	***3n + 3***	*33*

			Difference	n^{th} term	*Extension: 10^{th} term*
Q5	*Times table of the 'difference'*				
	Sequence	**1, 6, 11, 16, 21…**	*5*	*5n - 4*	*46*

			Difference	n^{th} term	*Extension: 10^{th} term*
Q6	*Times table of the 'difference'*				
	Sequence	**4, 10, 16, 22, 28…**	*6*	*6n - 2*	*58*

			Difference	n^{th} term	*Extension: 10^{th} term*
Q7	*Times table of the 'difference'*				
	Sequence	**5, 15, 25, 35, 45…**	*10*	*10n - 5*	95

			Difference	n^{th} term	*Extension: 10^{th} term*
Q8	*Times table of the 'difference'*				
	Sequence	**0, 3, 6, 9, 12…**	*3*	*3n - 3*	27

			Difference	n^{th} term	*Extension: 10^{th} term*
Q9	*Times table of the 'difference'*				
	Sequence	**2, 11, 20, 29, 38…**	*9*	*9n - 7*	83

			Difference	n^{th} term	*Extension: 10^{th} term*
Q10	*Times table of the 'difference'*				
	Sequence	**1, 9, 17, 25, 33…**	*8*	*8n - 7*	73

			Difference	n^{th} term	*Extension: 10^{th} term*
Q11	*Times table of the 'difference'*				
	Sequence	**-2, 1, 4, 7, 10…**	*3*	*3n - 5*	25

			Difference	n^{th} term	*Extension: 10^{th} term*
Q12	*Times table of the 'difference'*				
	Sequence	**-1, 3, 7, 11, 15**	*4*	*4n - 5*	35

Extension: In your book, work out the n^{th} terms for these sequences:

Q13: 4, 9, 14, 19, 24… 5n - 1

Q14: 5, 12, 19, 26, 33… 7n - 2

Q15: -2, 4, 10, 16, 22… 6n - 8