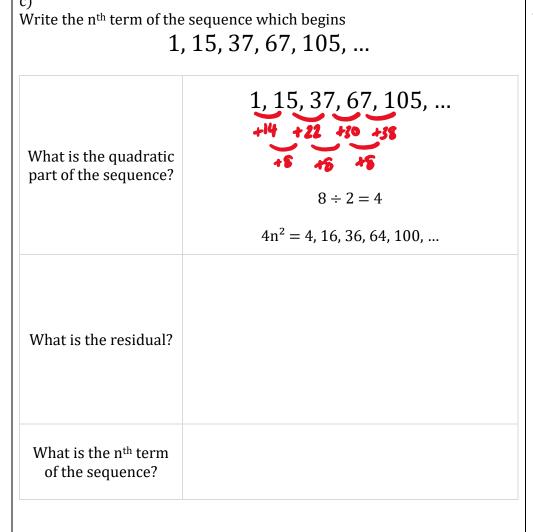
a) Write the n^{th} term of the sequence which begins 10, 19, 32, 49, 70, ...

What is the quadratic part of the sequence?	10, 19, 32, 49, 70, +1 +3 +17 +21 $4 \div 2 = 2$ $2n^2 = 2, 8, 18, 32, 50,$
What is the residual?	10, 19, 32, 49, 70, - 2, 8, 18, 32, 50, 8, 11, 14, 17, 20, 3n + 5
What is the n th term of the sequence?	$2n^2 + 3n + 5$

b) Write the n^{th} term of the sequence which begins 6, 12, 20, 30, 42, ...

What is the quadratic part of the sequence?	6, 12, 20, 30, 42, $2 \div 2 = 1$ $(1)n^{2} = 1, 4, 9, 16, 25,$
What is the residual?	6, 12, 20, 30, 42, -1, 4, 9, 16, 25, 5, 8, 11, 14, 17, 3n + 2
What is the n th term of the sequence?	

BACKWARD FADED MATHS



Write the n^{th} term of the sequence which begins $9, 13, 21, 33, 49, \dots$

BACKWARD FADED MATHS