MCR3U Jensen **Definitions** Formula for general term (explicit formula): Sequence: Arithmetic Sequence: Geometric Sequence: Series: **Example 1:** Find S_4 of the sequence represented by $t_n = 1 + (n-1)3$ **Arithmetic Series General Form**

OR

Arithmetic and Geometric Series – Lesson

Example 2: For the series $1 + 3 + 5 + 7 + \cdots$ find S_{23}		
Example 3: An arithmetic series with 52 terms starts with -7 and ends with 102. Find the sum of the series.		
series.		Note: Since we know t ₅₂ , it would be easier to use this version of the formula
		$S_n = \frac{n}{2}(a + t_n)$
Geometric Series		
	General form	

