

12.3 Recursive Formulas

Example 1: 3, 7, 11, 15, _____, _____, _____, ... Terms generated by _____

Example 2: 14, 34, 54, 74, _____, _____, _____, ... Terms generated by _____

Example 3: 3, 9, 27, 81, _____, _____, _____, ... Terms generated by _____

Example 4: 128, 64, 32, 16, _____, _____, _____, ... Terms generated by _____

Arithmetic:	Geometric:
72, 60, 48, _____, _____, _____, ...	4, 8, 16, _____, _____, _____, ...
<u>Common Difference:</u> $d =$	<u>Common Ratio:</u> $r =$
<u>Recursive:</u>	<u>Recursive:</u>
Find a_{21} :	Find a_{14} :

	Recursive Formulas
Arithmetic	$a_1 =$ $a_{n+1} = a_n + d$
Geometric	$g_1 =$ $g_{n+1} = g_n \cdot r$