ALGEBRA I // MODULE 1

SEQUENCES – 1.9

1.9

READY

1. How are arithmetic and geometric sequences similar?

2. How are they different?

SET

Each of the tables below represents an arithmetic sequence. Find the missing terms in the sequence, showing your method.

3. **Table 1**

x	1	2	3
y	3		12

4. **Table 2**

x	y
1	2
2	
3	
4	26

5. **Table 3**

x	y
1	24
2	
3	6
4	

6. **Table 4**

x	y
1	16
2	
3	
4	4
5	

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GO

Determine the recursive and explicit equations for each. (if the sequence is not arithmetic or geometric, identify it as neither and don't write the equations).

7. 5, 9, 13, 17, …   This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: _____   Explicit Equation: _____

8. 60, 30, 0, -30, …   This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: _____   Explicit Equation: _____

9. 60, 30, 15, $\frac{15}{2}$, … This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: _____   Explicit Equation: _____

10.

(The number of black tiles above)   This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: _____   Explicit Equation: _____

11. 4, 7, 12, 19, …   This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: _____Explicit Equation: _____