

Name: \_\_\_\_\_ Period: \_\_\_\_\_

Score:
_____ / _____
_____ %

**HW 3-6 HONORS: Finding Missing Terms**

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

1.

<b>x</b>	1	2	3
<b>y</b>	3		12

2.

<b>x</b>	<b>y</b>
1	2
2	
3	
4	26

3.

<b>x</b>	<b>y</b>
1	24
2	
3	6
4	

4.

<b>x</b>	<b>y</b>
1	16
2	
3	
4	4
5	

Determine whether the sequence is Arithmetic, Geometric or Neither.

Then determine the recursive and explicit equations for each (if the sequence is not arithmetic or geometric, try your best).

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

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_

6. 60, 30, 0, -30, ...      This sequence is:    Arithmetic      Geometric      Neither

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_

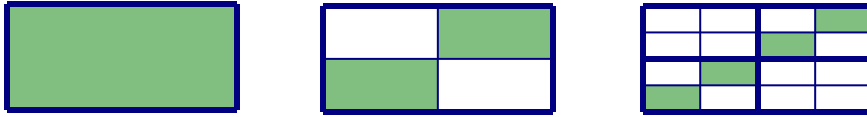
7. 60, 30, 15,  $\frac{15}{2}$ , ...      This sequence is:    Arithmetic      Geometric      Neither

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_

Determine whether the sequence is Arithmetic, Geometric or Neither.

Then determine the recursive and explicit equations for each (if the sequence is not arithmetic or geometric, try your best).

8.



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

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_

9. 4, 7, 12, 19, ...

This sequence is: Arithmetic Geometric Neither

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_

Each of the tables below represents a *geometric* sequence. Find the missing terms in the sequence, showing your method.

10.

$x$	1	2	3
$y$	3		12

11.

$x$	$y$
1	2
2	
3	
4	54

12.

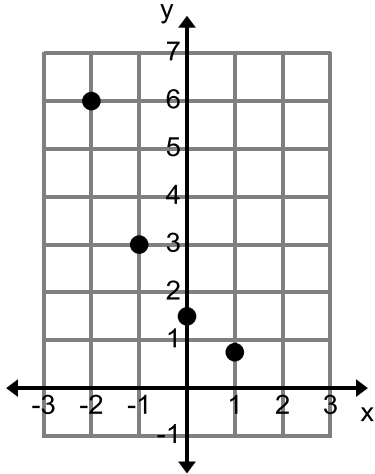
$x$	$y$
1	5
2	
3	20
4	

13.

$x$	$y$
1	4
2	
3	
4	
5	324

Determine whether each graph represents an Arithmetic or Geometric sequence. Then, find the recursive and explicit equation.

14.

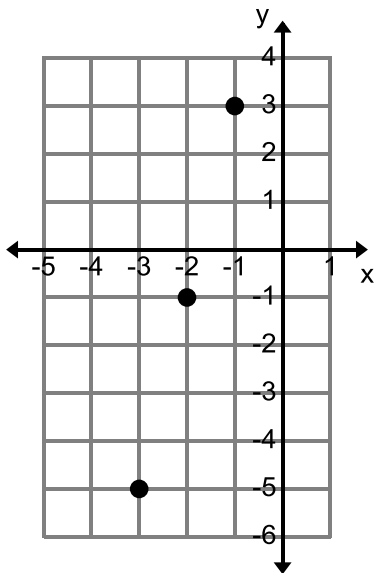


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15.



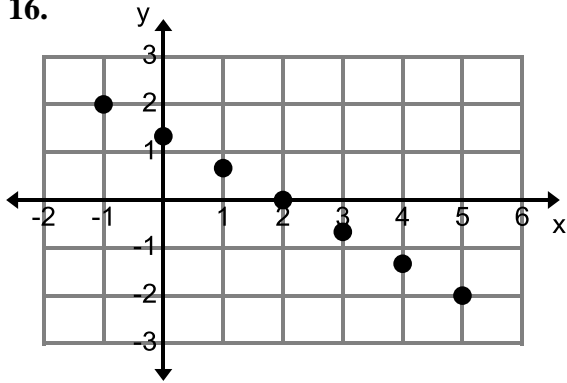
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Determine whether each graph represents an Arithmetic or Geometric sequence. Then, find the recursive and explicit equation.

16.

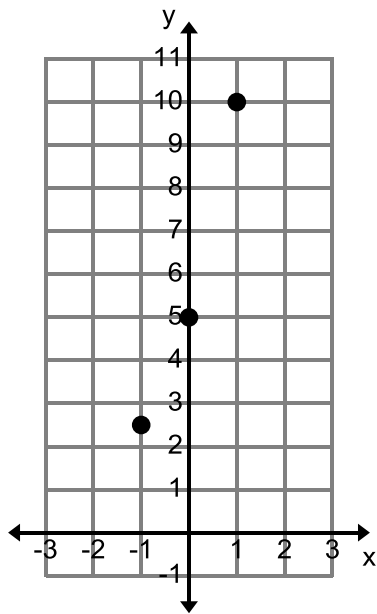


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17.



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