Math 1 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4-1 Homework**  Date\_\_\_\_\_\_\_\_

*Learning goals:*

* *I can convert a sequence into a recursive or explicit formula.*
* *I can use a formula to find missing terms in a sequence.*
* *I can determine the common difference/ratio from a sequence.*
* *I can identify linear and exponential situations and distinguish between the two.*
* *I can construct a linear or exponential function from an arithmetic sequence, table of values or verbal description.*

Determine if the sequence is geometric. If it is, find the common ratio.

 

 

 

Find the common ratio and the next three terms in each sequence below.

 

 

Given the first term and the common ratio of a geometric sequence find the first four terms, the explicit formula and the recursive formula.

 

 

 

17. Use the explicit formula to find the 10th term in the sequence from Number 14.

18. Use the explicit formula to find the 12th term in the sequence from Number 11.

**Find the missing terms in the geometric sequences below.**

19. 3.7, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, 236.8

20. 13, \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, 26.9568