

## Geometric Sequences

Date\_\_\_\_\_ Period\_\_\_\_

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

1)  $-1, 6, -36, 216, \dots$

$r = -6$

2)  $-1, 1, 4, 8, \dots$

Not geometric

3)  $4, 16, 36, 64, \dots$

Not geometric

4)  $-3, -15, -75, -375, \dots$

$r = 5$

5)  $-2, -4, -8, -16, \dots$

$r = 2$

6)  $1, -5, 25, -125, \dots$

$r = -5$

Given the explicit formula for a geometric sequence find the first five terms and the 8th term.

7)  $a_n = 3^{n-1}$

First Five Terms: 1, 3, 9, 27, 81

$a_8 = 2187$

8)  $a_n = 2 \cdot \left(\frac{1}{4}\right)^{n-1}$

First Five Terms: 2,  $\frac{1}{2}$ ,  $\frac{1}{8}$ ,  $\frac{1}{32}$ ,  $\frac{1}{128}$ 

$a_8 = \frac{1}{8192}$

9)  $a_n = -2.5 \cdot 4^{n-1}$

First Five Terms: -2.5, -10, -40, -160, -640

$a_8 = -40960$

10)  $a_n = -4 \cdot 3^{n-1}$

First Five Terms: -4, -12, -36, -108, -324

$a_8 = -8748$

Given the recursive formula for a geometric sequence find the common ratio, the first five terms, and the explicit formula.

11)  $a_n = a_{n-1} \cdot 2$

$a_1 = 2$

Common Ratio:  $r = 2$ 

First Five Terms: 2, 4, 8, 16, 32

Explicit:  $a_n = 2 \cdot 2^{n-1}$

12)  $a_n = a_{n-1} \cdot -3$

$a_1 = -3$

Common Ratio:  $r = -3$ 

First Five Terms: -3, 9, -27, 81, -243

Explicit:  $a_n = -3 \cdot (-3)^{n-1}$

13)  $a_n = a_{n-1} \cdot 5$

$a_1 = 2$

Common Ratio:  $r = 5$ 

First Five Terms: 2, 10, 50, 250, 1250

Explicit:  $a_n = 2 \cdot 5^{n-1}$

14)  $a_n = a_{n-1} \cdot 3$

$a_1 = -3$

Common Ratio:  $r = 3$ 

First Five Terms: -3, -9, -27, -81, -243

Explicit:  $a_n = -3 \cdot 3^{n-1}$

# Kuta Algebra Review Quiz

**Rosina Ehmann**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## Kuta Algebra Review Quiz:

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