

Section 10.1

Geometric Sequences and Series

The following sequence is a geometric sequence. Express it as a geometric series. $1, 2, 4, 8, \dots$

$$1 + 2 + 4 + 8 + \dots$$

Find the value of each of the following series. Express the answer in simplest form.

Series: $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots$

$\frac{1}{3} + \frac{1}{9} + \frac{1}{27} + \frac{1}{81} + \dots$

$\frac{1}{10} + \frac{1}{100} + \frac{1}{1000} + \frac{1}{10000} + \dots$

$\frac{1}{100} + \frac{1}{1000} + \frac{1}{10000} + \frac{1}{100000} + \dots$

The common ratio is $\frac{1}{2}$. The corresponding geometric series is $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots$

If you know the first term of a geometric sequence, a_1 , and the common ratio, r , then you can describe the term a_n using the following rule:

$$a_n = a_1 r^{n-1}$$

Find the first term of the geometric sequence $1, 2, 4, 8, 16, 32, \dots$

Step 1: Find the common ratio, r .

$$r = \frac{2}{1} = 2$$

Step 2: Identify the first term, a_1 .

$$a_1 = 1$$

Step 3: Describe the term a_n of the sequence. Write the formula, $a_n = a_1 r^{n-1}$.

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

Write the term.

$$a_n = 2^{n-1}$$

Substitute $a_1 = 1$ and $r = 2$.

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

Substitute $a_1 = 1$ and $r = 2$.

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

Simplify.

The first term of the sequence is 2^{n-1} .

Geometric sequences with a common ratio of $\frac{1}{2}$ are called geometric series. Find the common ratio.

$$1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \frac{1}{32}, \dots$$

$$1, \frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \frac{1}{81}, \frac{1}{243}, \dots$$

$$1, \frac{1}{10}, \frac{1}{100}, \frac{1}{1000}, \frac{1}{10000}, \frac{1}{100000}, \dots$$

Step 1: Find the first term of the geometric sequence.

$$1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \frac{1}{32}, \dots$$

$$1, \frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \frac{1}{81}, \frac{1}{243}, \dots$$



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Ying-Ying Zheng



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