

What is a geometric sequence? Give a definition and an example.

$2, 4, 8, 16, 32, \dots$        $a_1 = 2, r = 2$

What is the formula for finding the  $n$ th term of a geometric sequence?

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

Find the first four terms of each geometric sequence.

1.  $a_1 = 0.5, r = 2$

2.  $a_1 = 1, r = -2$

3.  $a_1 = 16, r = \frac{1}{2}$

$0.5, 1, 2, 4, 8, 16, \dots$

$1, -2, 4, -8, 16, -32, \dots$

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

For the following geometric sequences, find  $a_1$  and  $r$ .

4.  $4, 8, 16, 32, \dots$

5.  $100, 50, \frac{25}{2}, \frac{25}{4}, \dots$

6.  $32, -4, \frac{1}{2}, -\frac{1}{8}, \dots$

$a_1 = 4, r = 2$

$a_1 = 100, r = \frac{1}{2}$

$a_1 = 32, r = -\frac{1}{4}$

Use the formula to find the indicated term of each geometric sequence.

7. Find  $a_6$  for  $a_1 = 7, r = 2$

8. Find  $a_5$  for  $a_1 = 32, r = \frac{1}{2}$

9. Find  $a_5$  for  $a_1 = 243, r = -\frac{1}{3}$

$a_6 = 7 \cdot 2^5$

$a_5 = 32 \cdot \left(\frac{1}{2}\right)^4$

$a_5 = 243 \cdot \left(-\frac{1}{3}\right)^4$

$a_6 = 224$

$a_5 = 2$

$a_5 = 243$

10. Find  $a_5$  for  $1, 3, 9, \dots, r = 3$

11. Find  $a_5$  for  $2, -10, 50, \dots, r = -5$

12. Find  $a_5$  for  $\frac{1}{10}, \frac{1}{5}, \frac{1}{2}, \frac{3}{4}, \dots, r = \frac{3}{2}$

$a_5 = 1 \cdot 3^4$

$a_5 = 2 \cdot (-5)^4$

$a_5 = \frac{1}{10} \cdot \left(\frac{3}{2}\right)^4$

$a_5 = 81$

$a_5 = 1250$

$a_5 = \frac{81}{64}$

Use the formula to find the missing terms of each geometric sequence.

13.  $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots$

14.  $\frac{1}{3}, \frac{1}{6}, \frac{1}{12}, \frac{1}{24}, \frac{1}{48}, \dots$

15.  $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, \frac{5}{4}, \frac{7}{4}, \dots$

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

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

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

$\frac{1}{16} = \frac{1}{4} \cdot r^4$

$\frac{1}{48} = \frac{1}{3} \cdot r^4$

$\frac{7}{4} = \frac{5}{4} \cdot r$

$\frac{1}{16} = \frac{1}{4} \cdot r^4$

$\frac{1}{48} = \frac{1}{3} \cdot r^4$

$\frac{7}{4} = \frac{5}{4} \cdot r$

$\frac{1}{16} = \frac{1}{4} \cdot r^4$

$\frac{1}{48} = \frac{1}{3} \cdot r^4$

$\frac{7}{4} = \frac{5}{4} \cdot r$

$\frac{1}{16} = \frac{1}{4} \cdot r^4$

$\frac{1}{48} = \frac{1}{3} \cdot r^4$

$\frac{7}{4} = \frac{5}{4} \cdot r$

Use your formula to solve these word problems.

16. A ping pong ball is dropped from a height of 10 feet and bounces rebounded a distance of the previous fall. What distance does it rebound the 5<sup>th</sup> time?



$a_n = 10 \cdot \left(\frac{1}{2}\right)^{n-1}$

$\frac{10}{32} = \frac{10}{2^5}$

$\frac{1}{32}$

17. A town has a population of 250,000 and the population is increasing by 30% every year. What will the population be in 10 years?



$a_n = 250,000 \cdot (1.3)^{n-1}$

$250,000 \cdot (1.3)^{10}$  (rounded to the nearest person)

# Geometric Sequences And Series Answer Key

**Xiang Xie**



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