

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

$2, 4, 8, 16, 32, \dots$        $a_n = 2^n$

What is the formula for finding the sum of a geometric series?

$$S_n = a_1(r^n - 1)$$

Find the first four terms of each geometric sequence.

1.  $a_1 = 2, r = 2$

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

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

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

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

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

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  $a_5$  for  $a_1 = 7, r = 2$

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

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

$a_5 = 7 \cdot 2^4$

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

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

$a_5 = 28$

$a_5 = 1$

$a_5 = 243 \left(\frac{1}{81}\right) = 3$

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  $\frac{1}{10}, \frac{1}{5}, \frac{1}{2}, \dots, r = \frac{1}{2}$

$a_5 = 1 \cdot 3^4$

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

$a_5 = \frac{1}{10} \left(\frac{1}{2}\right)^4 = \frac{1}{80}$

$a_5 = 81$

$a_5 = 1250$

$a_5 = \frac{1}{80}$

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.  $\frac{1}{4}, \frac{1}{2}, \frac{1}{1}, \frac{1}{2}, \frac{1}{4}, \dots$

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

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

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

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

$\frac{1}{48} = \frac{1}{24} \cdot r^4$

$\frac{1}{4} = \frac{1}{2} \cdot r^4$

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

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

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

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

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

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

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?



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

$\frac{10}{32} = \frac{1}{2}$

$\frac{1}{32}$

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?



$a_n = 250,000 (1.3)^n$

$625,745$  (rounded to the nearest person)

# Geometric Sequences And Series Answer Key

**Sandra Luna McCune, Ennis Donice  
McCune**



## **Geometric Sequences And Series Answer Key:**

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## **Table of Contents Geometric Sequences And Series Answer Key**

1. Understanding the eBook Geometric Sequences And Series Answer Key
  - The Rise of Digital Reading Geometric Sequences And Series Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Geometric Sequences And Series Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Geometric Sequences And Series Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geometric Sequences And Series Answer Key
  - Personalized Recommendations
  - Geometric Sequences And Series Answer Key User Reviews and Ratings
  - Geometric Sequences And Series Answer Key and Bestseller Lists

5. Accessing Geometric Sequences And Series Answer Key Free and Paid eBooks
  - Geometric Sequences And Series Answer Key Public Domain eBooks
  - Geometric Sequences And Series Answer Key eBook Subscription Services
  - Geometric Sequences And Series Answer Key Budget-Friendly Options
6. Navigating Geometric Sequences And Series Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Geometric Sequences And Series Answer Key Compatibility with Devices
  - Geometric Sequences And Series Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Geometric Sequences And Series Answer Key
  - Highlighting and Note-Taking Geometric Sequences And Series Answer Key
  - Interactive Elements Geometric Sequences And Series Answer Key
8. Staying Engaged with Geometric Sequences And Series Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Geometric Sequences And Series Answer Key
9. Balancing eBooks and Physical Books Geometric Sequences And Series Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Geometric Sequences And Series Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Geometric Sequences And Series Answer Key
  - Setting Reading Goals Geometric Sequences And Series Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometric Sequences And Series Answer Key
  - Fact-Checking eBook Content of Geometric Sequences And Series Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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