

9.1 Sequences and Series

What you should learn

- Use sequence notation to write the terms of sequences.
- Use factorial notation.
- Use summation notation to write sums.
- Find the sums of infinite series.
- Use sequences and series to model and solve real-life problems.

Why you should learn it

Sequences and series can be used to model real-life problems. For instance, in Exercise 109 on page 651, sequences are used to model the number of Best Buy stores from 1998 through 2003.



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Sequences

In mathematics, the word *sequence* is used in much the same way as in ordinary English. Saying that a collection is listed in *sequence* means that it is ordered so that it has a first member, a second member, a third member, and so on.

Mathematically, you can think of a sequence as a function whose domain is the set of positive integers.

$$f(1) = a_1, f(2) = a_2, f(3) = a_3, f(4) = a_4, \dots, f(n) = a_n, \dots$$

Rather than using function notation, however, sequences are usually written using subscript notation, as indicated in the following definition.

Definition of Sequence

An **infinite sequence** is a function whose domain is the set of positive integers. The function values

$$a_1, a_2, a_3, a_4, \dots, a_n, \dots$$

are the **terms** of the sequence. If the domain of the function consists of the first n positive integers only, the sequence is a **finite sequence**.

On occasion it is convenient to begin subscripting a sequence with 0 instead of 1 so that the terms of the sequence become $a_0, a_1, a_2, a_3, \dots$.

Example 1 Writing the Terms of a Sequence

Write the first four terms of the sequences given by

a. $a_n = 3n - 2$ b. $a_n = 3 + (-1)^n$

Solution

a. The first four terms of the sequence given by $a_n = 3n - 2$ are

$$a_1 = 3(1) - 2 = 1 \quad \text{1st term}$$

$$a_2 = 3(2) - 2 = 4 \quad \text{2nd term}$$

$$a_3 = 3(3) - 2 = 7 \quad \text{3rd term}$$

$$a_4 = 3(4) - 2 = 10 \quad \text{4th term}$$

b. The first four terms of the sequence given by $a_n = 3 + (-1)^n$ are

$$a_1 = 3 + (-1)^1 = 3 - 1 = 2 \quad \text{1st term}$$

$$a_2 = 3 + (-1)^2 = 3 + 1 = 4 \quad \text{2nd term}$$

$$a_3 = 3 + (-1)^3 = 3 - 1 = 2 \quad \text{3rd term}$$

$$a_4 = 3 + (-1)^4 = 3 + 1 = 4 \quad \text{4th term}$$

Now try Exercise 1.

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Lauren Gardner



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Table of Contents Practice A Lesson 9 1 Introduction Sequence Answers

1. Understanding the eBook Practice A Lesson 9 1 Introduction Sequence Answers
 - The Rise of Digital Reading Practice A Lesson 9 1 Introduction Sequence Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice A Lesson 9 1 Introduction Sequence Answers
 - 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 Practice A Lesson 9 1 Introduction Sequence Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice A Lesson 9 1 Introduction Sequence Answers

- Personalized Recommendations
 - Practice A Lesson 9 1 Introduction Sequence Answers User Reviews and Ratings
 - Practice A Lesson 9 1 Introduction Sequence Answers and Bestseller Lists
5. Accessing Practice A Lesson 9 1 Introduction Sequence Answers Free and Paid eBooks
- Practice A Lesson 9 1 Introduction Sequence Answers Public Domain eBooks
 - Practice A Lesson 9 1 Introduction Sequence Answers eBook Subscription Services
 - Practice A Lesson 9 1 Introduction Sequence Answers Budget-Friendly Options
6. Navigating Practice A Lesson 9 1 Introduction Sequence Answers eBook Formats
- ePub, PDF, MOBI, and More
 - Practice A Lesson 9 1 Introduction Sequence Answers Compatibility with Devices
 - Practice A Lesson 9 1 Introduction Sequence Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Practice A Lesson 9 1 Introduction Sequence Answers
 - Highlighting and Note-Taking Practice A Lesson 9 1 Introduction Sequence Answers
 - Interactive Elements Practice A Lesson 9 1 Introduction Sequence Answers
8. Staying Engaged with Practice A Lesson 9 1 Introduction Sequence Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Practice A Lesson 9 1 Introduction Sequence Answers
9. Balancing eBooks and Physical Books Practice A Lesson 9 1 Introduction Sequence Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practice A Lesson 9 1 Introduction Sequence Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Practice A Lesson 9 1 Introduction Sequence Answers
- Setting Reading Goals Practice A Lesson 9 1 Introduction Sequence Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practice A Lesson 9 1 Introduction Sequence Answers

- Fact-Checking eBook Content of Practice A Lesson 9 1 Introduction Sequence Answers
 - 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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