

Infinite Geometric Series

If, for a geometric series with $-1 < r < 1$, we add infinitely many terms, the sum will approach a finite limit. We call this the sum of the series.

When summing a finite geometric series, we use the formula $S_n = \frac{a(1-r^n)}{1-r}$.

For an infinite geometric series, if $-1 < r < 1$, then r^n approaches zero as n approaches infinity (multiplying a fraction by itself repeatedly decreases its value toward zero). Thus the r^n term can be "ignored", and the formula becomes $S_\infty = \frac{a}{1-r}$.

1) Find the sum of each infinite geometric series, if possible.

a) $10 + 2 + \frac{2}{5} + \dots$ $\left(\frac{25}{2}\right)$

b) $1.2 - 2.4 + 4.8 - 9.6 + \dots$ (no sum)

c) $3 - 1 + \frac{1}{3} - \frac{1}{9} + \frac{1}{27} + \dots$ $\left(\frac{9}{4}\right)$

2) Write the first three terms in each series. Find the sum of each infinite geometric series, if possible.

a) $\sum_{n=1}^{\infty} 34(0.01)^n$ $\left(\frac{34}{99}\right)$

b) $\sum_{n=0}^{\infty} 5(-1.03)^n$ (no sum)

c) $\sum_{n=1}^{\infty} 2(1-0.1)^n$ (18)

3) By expressing each repeating decimal as the sum of an infinite geometric series, find the common fraction equivalent to each.

a) $0.123\ 123\ 123\ \dots$ $\left(\frac{123}{999}\right) = \left(\frac{41}{333}\right)$

b) $0.672\ 727\ 272\ \dots$ $\left(\frac{37}{55}\right)$

c) $3.242424\dots$ $\left(\frac{107}{33}\right)$

Skills Practice Infinite Geometric Series

Michael Smith



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Table of Contents Skills Practice Infinite Geometric Series

1. Understanding the eBook Skills Practice Infinite Geometric Series
 - The Rise of Digital Reading Skills Practice Infinite Geometric Series
 - Advantages of eBooks Over Traditional Books
2. Identifying Skills Practice Infinite Geometric Series
 - 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 Skills Practice Infinite Geometric Series
 - User-Friendly Interface
4. Exploring eBook Recommendations from Skills Practice Infinite Geometric Series
 - Personalized Recommendations
 - Skills Practice Infinite Geometric Series User Reviews and Ratings
 - Skills Practice Infinite Geometric Series and Bestseller Lists
5. Accessing Skills Practice Infinite Geometric Series Free and Paid eBooks

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