

Algebra 2

Chapter 11 Test Review - Part 2

Name: Key Hour: _____

State whether the following geometric sequences will converge or diverge. Then state what $|r|$ equals. You do not have to find the sum of the converging sequences in this section.

1. $a_n = 5(-0.5)^{n-1}$

Converge / Diverge, because $|r| = \underline{0.5}$

2. $a_n = \pi \left(\frac{7}{6}\right)^{n-1}$

Converge / Diverge, because $|r| = \underline{7/6}$

3. 15, 11.25, 8.4375, ...

$11.25 \div 15 = 0.75$
 $r = 0.75$

Converge / Diverge, because $|r| = \underline{0.75}$

4. $\sum_{n=1}^{\infty} -4 \left(-\frac{11}{12}\right)^{n-1}$

Converge / Diverge, because $|r| = \underline{11/12}$

5. 2, -4, 8, -16, ...

$r = -2$

Converge / Diverge, because $|r| = \underline{2}$

6. 1056, -528, 264, -132, ...

$-528 \div 1056 = -0.5$
 $r = -0.5$

Converge / Diverge, because $|r| = \underline{0.5}$

7. $\sum_{n=1}^{\infty} 10(1.25)^{n-1}$

Converge / Diverge, because $|r| = \underline{1.25}$

Find the sum of the following infinite geometric sequences.

8. $\sum_{n=1}^{\infty} 7 \left(-\frac{5}{6}\right)^{n-1}$

$a_1 = 7$ $r = -\frac{5}{6}$

$S = \frac{7}{1 - (-\frac{5}{6})} = \frac{7}{11/6} = \frac{42}{11} \approx 3.82$

Formula:
 $S = \frac{a_1}{1-r}$ $\left\{ \begin{array}{l} \text{if } |r| < 1 \end{array} \right.$

9. $\sum_{n=1}^{\infty} 8(0.93)^{n-1}$

$a_1 = 8$ $r = 0.93$

$S = \frac{8}{1 - (0.93)} = \frac{8}{.07} = \frac{800}{7} \approx 114.3$

10. $\frac{11}{2}, \frac{11}{4}, \frac{11}{8}, \dots$

$a_1 = \frac{11}{2}$ $r = \frac{11}{4} \div \frac{11}{2} = \frac{1}{2}$

$S = \frac{11/2}{1 - 1/2} = \frac{11/2}{1/2} = \boxed{11}$

11. $\frac{7}{9}, \frac{7}{36}, \frac{7}{144}, \dots$

$a_1 = 7/9$ $r = \frac{7}{36} \div \frac{7}{9} = 0.25$

$S = \frac{7/9}{1 - 0.25} = \frac{7/9}{.75} = \frac{7}{9} \cdot \frac{4}{3} = \frac{28}{27} \approx 1.04$

Write a recursive rule for the following sequences.

12. 4, 9, 14, 19, ...

$a_1 = 4$ $a_n = a_{n-1} + 5$

13. 1, $-\frac{1}{4}$, $\frac{1}{16}$, $-\frac{1}{64}$, ...

$a_1 = 1$ $a_n = a_{n-1} \cdot (-0.25)$

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Ensheng Dong

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Table of Contents Advanced Algebra 2 Lesson Master Answers

1. Understanding the eBook Advanced Algebra 2 Lesson Master Answers
 - The Rise of Digital Reading Advanced Algebra 2 Lesson Master Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Algebra 2 Lesson Master 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 Advanced Algebra 2 Lesson Master Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Algebra 2 Lesson Master Answers
 - Personalized Recommendations

- Advanced Algebra 2 Lesson Master Answers User Reviews and Ratings
- Advanced Algebra 2 Lesson Master Answers and Bestseller Lists
- 5. Accessing Advanced Algebra 2 Lesson Master Answers Free and Paid eBooks
 - Advanced Algebra 2 Lesson Master Answers Public Domain eBooks
 - Advanced Algebra 2 Lesson Master Answers eBook Subscription Services
 - Advanced Algebra 2 Lesson Master Answers Budget-Friendly Options
- 6. Navigating Advanced Algebra 2 Lesson Master Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Advanced Algebra 2 Lesson Master Answers Compatibility with Devices
 - Advanced Algebra 2 Lesson Master Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Advanced Algebra 2 Lesson Master Answers
 - Highlighting and Note-Taking Advanced Algebra 2 Lesson Master Answers
 - Interactive Elements Advanced Algebra 2 Lesson Master Answers
- 8. Staying Engaged with Advanced Algebra 2 Lesson Master Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Advanced Algebra 2 Lesson Master Answers
- 9. Balancing eBooks and Physical Books Advanced Algebra 2 Lesson Master Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Advanced Algebra 2 Lesson Master Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Advanced Algebra 2 Lesson Master Answers
 - Setting Reading Goals Advanced Algebra 2 Lesson Master Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Advanced Algebra 2 Lesson Master Answers
 - Fact-Checking eBook Content of Advanced Algebra 2 Lesson Master 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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