

Name: _____

Period: _____ Unit 10: Infinite Sequences and Series _____

Convergence Test for an Infinite Geometric Series, is a BC Calculus topic. It is the first test for infinite series. An infinite geometric series converges to the sum of $\frac{a}{1-r}$ (where r is the ratio or common ratio between the terms and the terms are found by a_n) if r is between -1 and 1 . There is no sum if r is greater than or equal to 1 , less than or equal to -1 , because the series diverges to an arbitrary large (and positive or negative) result.

n th Term Test for Divergence, is a BC Calculus topic. It is the second test for infinite series. You may get a non-zero answer, no answer (inconclusive) at all or even something with infinity. Only the answer of 0 , will indicate that the series converges. However, it will not tell you what it converges to. If you do know the sum (as you would if it were an infinite geometric series), then you can write what it converges to.

Determine if the infinite series converges or diverges.

1. $\sum_{n=1}^{\infty} \frac{2^{n+1}}{5^n}$
2. $\sum_{n=1}^{\infty} (\tan x)^n$
3. $\sum_{n=2}^{\infty} \frac{2}{n^2-1}$
4. $\sum_{n=1}^{\infty} \left(\frac{2}{n(n+2)} + \frac{1}{7^n} \right)$

Determine if the infinite geometric series converges or diverges. If it converges, then find its sum.

5. $\frac{2}{21} + \frac{4}{63} + \frac{8}{189} + \dots$

Section 2 Part B (No Calculator FR)

Given:



Graph of f

The function f is defined on the interval $-5 \leq x \leq c$, where $c > 0$ and $f(c) = 0$. The graph of f , which consists of three line segments and a quarter of a circle with center $(-3, 0)$ and radius 2 , is shown in the figure above.

6.

Find the average rate of change of f over the interval $[-5, 0]$. Show the computations that lead to your answer.

7.

For $-5 \leq x \leq c$, let g be the function defined by $g(x) = \int_{-1}^x f(t) dt$. Find the x -coordinate of each point of inflection of the graph of g . Justify your answer.

8.

Find the value of c for which the average value of f over the interval $-5 \leq x \leq c$ is $\frac{1}{2}$.

9.

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1. Understanding the eBook Sample Exam 8th Edition Calculus Bc
 - The Rise of Digital Reading Sample Exam 8th Edition Calculus Bc
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Exam 8th Edition Calculus Bc
 - 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 Sample Exam 8th Edition Calculus Bc
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Exam 8th Edition Calculus Bc
 - Personalized Recommendations
 - Sample Exam 8th Edition Calculus Bc User Reviews and Ratings
 - Sample Exam 8th Edition Calculus Bc and Bestseller Lists
5. Accessing Sample Exam 8th Edition Calculus Bc Free and Paid eBooks
 - Sample Exam 8th Edition Calculus Bc Public Domain eBooks
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 - Sample Exam 8th Edition Calculus Bc Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Sample Exam 8th Edition Calculus Bc Compatibility with Devices
 - Sample Exam 8th Edition Calculus Bc Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Exam 8th Edition Calculus Bc
 - Highlighting and Note-Taking Sample Exam 8th Edition Calculus Bc
 - Interactive Elements Sample Exam 8th Edition Calculus Bc
8. Staying Engaged with Sample Exam 8th Edition Calculus Bc

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Sample Exam 8th Edition Calculus Bc
- 9. Balancing eBooks and Physical Books Sample Exam 8th Edition Calculus Bc
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Exam 8th Edition Calculus Bc
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Exam 8th Edition Calculus Bc
 - Setting Reading Goals Sample Exam 8th Edition Calculus Bc
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Exam 8th Edition Calculus Bc
 - Fact-Checking eBook Content of Sample Exam 8th Edition Calculus Bc
 - 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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