

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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Michael Rajnik



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