

@MaThEmAt!c\$

LMS

For the power series, c x | If f(x)=sinx , thenSelect x | The term by term differ x | +

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Time Left 34 sec(s)

Quiz Start Time: 10:29 AM, 23 November 2023

MTH631 - Real Analysis II (Quiz #1)

Total Marks: 1

Question # 5 of 10 ( Start time: 10:33:06 AM, 23 November 2023 )

The term by term differentiation of the series

$$\sum_{n=0}^{\infty} (-1)^n \frac{x^{2n}}{(2n)!}, \quad -\infty < x < \infty$$

becomes

Select the correct option

Reload Math Equations

$\sum_{n=20}^{\infty} (-1)^n \frac{x^{2n+1}}{(2n+1)!}, \quad -\infty < x < \infty.$

$\sum_{n=0}^{\infty} \frac{x^{2n}}{(2n)!}, \quad -\infty < x < \infty.$



$\sum_{n=0}^{\infty} (-1)^n \frac{x^{2n+1}}{(2n+1)!}, \quad -\infty < x < \infty$

$\sum_{n=0}^{\infty} (-1)^n \frac{x^{2n}}{(2n)!}, \quad -\infty < x < \infty.$



Click to Save Answer & Move to Next Question



Type here to search



10:34 am  
23/11/2023

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Quiz    For the power ser    If  $f(x)=\sin x$ , then    The term by term    If a series of funct

question.aspx?ver=95b89a04-afca-4ab8-b46b-81a15418e2b8

Time Left 66 sec(s)

MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 10:29 AM, 23 November 2023

Question # 6 of 10 ( Start time: 10:34:34 AM, 23 November 2023 ) Total Marks: 1

If a series of functions converges uniformly on a set S, then it ----- converge(s) absolutely uniformly on S.

Select the correct option

necessarily

does not necessarily

Click to Save Answer & Move to Next Question

Type here to search 10:35 am  
23/11/2023

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LMS Quiz



MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:29 AM, 23 November 2023

Total Marks: 1

Question # 7 of 10 (Start time: 10:35:15 AM, 23 November 2023)

The uniform convergence of the sequence of functions preserves

Select the correct option

Reload Math Equations

integrability only

continuity and integrability

continuity only

continuity and differentiability

Click to Save Answer & Move to Next Question



Type here to search



10:36 am  
23/11/2023

@MaThEmAt!c\$

For the power ser | If  $f(x)=\sin x$ , then | The uniform conv | If  $f(x)=\sum_{n=0}^{\infty} a_n x^n$  | +

question.aspx?ver=f40b9167-0bdf-4ebf-85d9-9a5ee83989a9



Time Left  
44  
sec(s)

Minutes Analysis II (Quiz #1)

Quiz Start Time: 10:29 AM, 23 November 2023

Question # 8 of 10 ( Start time: 10:36:07 AM, 23 November 2023 )

Total Marks: 1

If  $f(x) = \sum_{n=0}^{\infty} a_n (x - x_0)^n$ , having  $R > 0$  as a radius of convergence, and  $f(x)$  is continuous and differentiable in its interval of convergence, then radius of convergence of  $f'(x)$  is ----- .

Select the correct option

Reload Math Equations

$\frac{1}{R}, R \neq 0$

also  $R$



$R + h, h > 0$

$R - h, h < 0$



Click to Save Answer & Move to Next Question

Type here to search



10:37 am  
23/11/2023

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LMS Quiz    For the power    If  $f(x) = \sin x$ , then    The uniform    If  $f(x) = \sum n=0 \infty$     For  $x=1$ , the int

'QuizQuestion.aspx?ver=66eb6006-90e7-4695-a288-f032d4c702ad'

Time Left 65 sec(s)

MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:29 AM, 23 November 2023

Question # 9 of 10 ( Start time: 10:37:23 AM, 23 November 2023 )

Total Marks: 1

For  $x = 1$ , the nth partial sum  $S_n$  of the series:

$1 + x + x^2 + \dots + x^{n-1}$ , is -----.

Select the correct option

 Reload Math Equations



2n



n-1



n



n+1

Click to Save Answer & Move to Next Question



Type here to search



10:38 am  
23/11/2023

@MaThEmAt!c\$

Quiz

x

For the power

x

If  $f(x) = \sin x$ , th

x

The uniform c

x

If  $f(x) = \sum n=0 \infty$

x

For  $x=1$ , the n

x

-

0

x

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Time Left

63  
sec(s)

MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:29 AM, 23 November 2023

Question # 9 of 10 ( Start time: 10:37:23 AM, 23 November 2023 )

Total Marks: 1

For  $x = 1$ , the nth partial sum  $S_n$  of the series:

$1 + x + x^2 + \dots + x^{n-1}$ , is -----.

Select the correct option

Reload Math Equations



2n



n-1



n



n+1

✓

Click to Save Answer & Move to Next Question



Type here to search



10:38 am  
23/11/2023

@MaThEmAt!c\$

Quiz    For the po...    If  $f(x)=\sin x$     The uniform...    If  $f(x)=\sum n=$     For  $x=1$ , the...    tanx is an...    +

k/Quiz/QuizQuestion.aspx?ver=051f0eac-7fc-4f33-a49b-9fcfee0a05fb

Time Left 36 sec(s)

MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 10:29 AM, 23 November 2023

Question # 10 of 10 ( Start time: 10:38:11 AM, 23 November 2023 )

Total Marks: 1

$\tan x$  is an odd function, its derivatives of even order are equal to

Select the correct option

Reload Math Equations

$\pi$  at  $x_0 = 0$ .

$0$  at  $x_0 = 0$ . ✓

$\tan x \sec x$  at  $x_0 = 0$ .

$1$  at  $x_0 = 0$ .

Click to Save Answer & Move to Next Question

@MaThEmAt!c\$

x For the sequence of functions, un x | +

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Time Left  
72  
sec(s)

MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:41 AM, 23 November 2023

Question # 1 of 10 ( Start time: 10:41:29 AM, 23 November 2023 )

Total Marks: 1

For the sequence of functions, *uniform convergence*  $\Rightarrow$  Point - wise convergence.

Select the correct option

Reload Math Equations

True



False



Click to Save Answer & Move to Next Question



Type here to search



10:42 am  
23/11/2023

@MaThEmAt!c\$

LMS Quiz For the sequence of functions A sequence of integrable func + - ×

unction acnv?ver=48c31d5d-4671-4ea9-a729-ebd24cbec225

Time Left 58 sec(s)

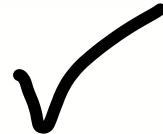
MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 10:41 AM, 23 November 2023

Question # 2 of 10 (Start time: 10:42:02 AM, 23 November 2023) Total Marks: 1

A sequence of integrable functions converging uniformly to an integrable function, the limit of integrals is -----equal to the integral of limit function.

Select the correct option

necessarily



not



Click to Save Answer & Move to Next Question



Type here to search



10:42 am  
23/11/2023

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LMS Quiz For the sequence of fu A sequence of integral For the power series; f + - × × × ×

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Time Left 65 sec(s)

Quiz Start Time: 10:41 AM, 23 November 2023

MTH631 - Real Analysis II (Quiz #1)

Total Marks: 1

Question # 3 of 10 ( Start time: 10:42:55 AM, 23 November 2023 )

For the power series;  $f(x) = \sum_{n=0}^{\infty} (-1)^n \frac{x^{2n+1}}{(2n+1)!}$ ,  $f'(x) = \dots$ .

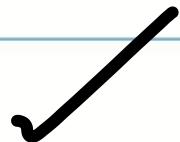
Select the correct option

Reload Math Equations

$$\sum_{n=1}^{\infty} (-1)^{n-1} \frac{x^{2n-2}}{(2n-2)!}$$



$$\sum_{n=0}^{\infty} (-1)^{n-1} \frac{x^{2n}}{(2n)!}$$



Click to Save Answer & Move to Next Question



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10:43 am  
23/11/2023

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Quiz

For the sequence

A sequence of int

For the power ser

A fundamental pr

+

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Time Left  
74  
sec(s)

MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:41 AM, 23 November 2023

Question # 4 of 10 ( Start time: 10:43:38 AM, 23 November 2023 )

Total Marks: 1

A fundamental property of the exponential function: that  $(e^x)^{-1} = e^{-x}$ .

Select the correct option

Reload Math Equations

False.



True.



Click to Save Answer & Move to Next Question



Type here to search



10:44 am  
23/11/2023

@MaThEmAt!c\$

For the sequence | A sequence of numbers | For the power series | A fundamental concept | For applying the Weierstrass M-test | +

.aspx?ver=25f57deb-84c9-4952-ba80-36eabb0be6e1



Time Left  
59  
sec(s)

MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:41 AM, 23 November 2023

Question # 5 of 10 ( Start time: 10:44:06 AM, 23 November 2023 )

Total Marks: 1

For applying Weierstrass' M - test, which of the following can be taken as dominating series

for the uniform convergence of  $\sum_{n=1}^{\infty} \frac{e^{-2nx}}{4n^2 - 1}, x \geq 0$ ?

Select the correct option

Reload Math Equations



$$\sum \frac{1}{e^{-2nx}}$$



✓  $\sum \frac{1}{4n^2 - 1}$



$$\sum \frac{1}{4n^2}$$



$$\sum \frac{1}{e^{2nx}}$$

Click to Save Answer & Move to Next Question



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10:44 am  
23/11/2023

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Quiz For the sec A sequence For the po A fundame For applyin Let f be de +

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MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 10:41 AM, 23 November 2023

Question # 6 of 10 (Start time: 10:44:58 AM, 23 November 2023) Total Marks: 1

Let  $f$  be defined by a power series with finite radius of convergence  $R$ . Then  $\lim_{x \rightarrow (x_0+R)^+} f(x) = \sum_{n=0}^{\infty} a_n R^n$  only if

Select the correct option Reload Math Equations

$\sum_{n=0}^{\infty} b_n R^n$  is convergent.

$\sum_{n=0}^{\infty} a_n R^n$  converges.

$\sum_{n=0}^{\infty} (-1)^n a_n R^n$  converges

None of the above

Click to Save Answer & Move to Next Question



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## MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:41 AM, 23 November 2023

## Question # 7 of 10 (Start time: 10:45:49 AM, 23 November 2023)

Total Marks: 1

Let  $f$  be defined by a power series with finite radius of convergence  $R$ . Then  $\lim_{x \rightarrow (x_0+R)^-} f(x) = \sum_{n=0}^{\infty} a_n R^n$  only if

Select the correct option

Reload Math Equations

  $\sum_{n=0}^{\infty} a_n R^n$  converges  $\sum_{n=0}^{\infty} (-1)^n a_n R^n$  converges.  $\sum_{n=0}^{\infty} b_n R^n$  is uniformly convergent. None of these.

Click to Save Answer &amp; Move to Next Question



Type here to search

10:46 am  
23/11/2023

LMS Quiz For the sequence of fu A sequence of integral Let{Fn(x)}be a sequenc

izQuestion.aspx?ver=79f324d3-2ab0-4161-b57f-cbe6f0c43afe

Time Left 69 sec(s)

MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 10:41 AM, 23 November 2023

Question # 8 of 10 ( Start time: 10:46:31 AM, 23 November 2023 ) Total Marks: 1

Let  $\{F_n(x)\}$  be a sequence of functions on  $D \subseteq \mathbb{R}$ , if to each  $x \in D$  and to each  $\varepsilon > 0$  there corresponds a positive integer  $m$  such that  $|F_n(x) - F(x)| < \varepsilon \forall n \geq m$ , then we say that  $\{F_n(x)\}$  converges -----, to the function  $F(x)$  on  $D$ .

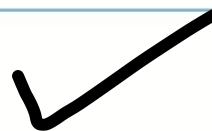
Select the correct option

 Reload Math Equations

Point-wise



Uniformly



Click to Save Answer & Move to Next Question



Type here to search



10:47 am  
23/11/2023

Time Left  
65  
sec(s)

Quiz Start Time: 10:41 AM, 23 November 2023

MTH631 - Real Analysis II (Quiz #1)

Total Marks: 1

Question # 9 of 10 ( Start time: 10:47:11 AM, 23 November 2023 )

If  $\{F_n(x)\}$

is a sequence of functions defined on domain  $D \subseteq \mathbb{R}$ , then for  $c \in D$  the sequence:  $\{F_n(c)\} = \{F_1(c), F_2(c), F_3(c), \dots\}$  is a sequence of -----.

Select the correct option

Reload Math Equations

Natural numbers



Real numbers



Click to Save Answer & Move to Next Question



Type here to search



10:47 am  
23/11/2023

Quiz    Let $\{f_n(x)\}$ be a sequence X    If $\{f_n(x)\}$ is a sequence of functions X    A power series is continuous X +

QuizQuestion.aspx?ver=abca76bf-6159-4edf-a5fd-fbe70a2bb179

Time Left 66 sec(s)

MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 10:41 AM, 23 November 2023

Question # 10 of 10 ( Start time: 10:47:55 AM, 23 November 2023 ) Total Marks: 1

A power series is continuous and differentiable in

Select the correct option

in every interval  $[x_0 - r, x_0 + r]$  such that  $0 < r$ .

its interval of convergence.

Click to Save Answer & Move to Next Question

✓

Quiz   To check uniform   The limit function   For  $|x| \geq 1$ , the series

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Time Left 37 sec(s)

Quiz Start Time: 09:39 AM, 21 November 2023

Question # 6 of 10 ( Start time: 09:44:52 AM, 21 November 2023 ) Total Marks: 1

For  $|x| \geq 1$ , the series:  $1 + x + x^2 + \dots + x^{n-1}$  ----- as  $n \rightarrow \infty$ .

Select the correct option

diverges

converges

converges uniformly

converges pointwise

✓

Reload Math Equations

Click to Save Answer & Move to Next Question

LMS Quiz To check unifo The limit func For |x|>1, the If f(x)= $\sum n=0^\infty$  +

sections.aspx?ver=c414045e-f296-483b-8540-c87d78e3a789

Time Left 17 sec(s)

MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 09:39 AM, 21 November 2023

Question # 7 of 10 (Start time: 09:46:18 AM, 21 November 2023)

Total Marks: 1

If  $f(x) = \sum_{n=0}^{\infty} a_n(x - x_0)^n$ , having  $R > 0$  as a radius of convergence, and  $f(x)$  is continuous and differentiable in its interval of convergence, then radius of convergence of  $f'(x)$  is -----.

Select the correct option

 Reload Math Equations

- $R + h, h > 0$
- also  $R$  
- $\frac{1}{R}, R \neq 0$
- $R - h, h < 0$



Click to Save Answer & Move to Next Question



Type here to search



9:48 am  
21/11/2023

Quiz Start Time: 09:39 AM, 21 November 2023

MTH631 - Real Analysis II (Quiz #1)

Total Marks: 1

Question # 8 of 10 (Start time: 09:48:14 AM, 21 November 2023)

The uniform convergence of the sequence of functions preserves

Select the correct option

Reload Math Equations

continuity only



continuity and differentiability

integrability only

continuity and integrability

Click to Save Answer & Move to Next Question



Type here to search



9:49 am  
21/11/2023

x To check x | The limit x | For  $|x|>1$  x | If  $f(x)=\Sigma$  x | The unif. x | A power x | +

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Time Left 68 sec(s)

MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 09:39 AM, 21 November 2023

Question # 9 of 10 ( Start time: 09:49:00 AM, 21 November 2023 )

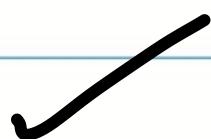
Total Marks: 1

A power series is continuous and differentiable in

Select the correct option

Reload Math Equations

its interval of convergence.



in every interval  $[x_0 - r, x_0 + r]$  such that  $0 < r$ .

Click to Save Answer & Move to Next Question

See X LMS Quiz X To check uniform X The limit function X Let f be defined b X +

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Time Left 40 sec(s)

MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 09:39 AM, 21 November 2023

Question # 10 of 10 ( Start time: 09:49:37 AM, 21 November 2023 ) Total Marks: 1

Let  $f$  be defined by a power series with finite radius of convergence  $R$ . Then  $\lim_{x \rightarrow (x_0+R)^-} f(x) = \sum_{n=0}^{\infty} a_n R^n$  only if

Select the correct option

$\sum_{n=0}^{\infty} a_n R^n$  converges

None of these.

$\sum_{n=0}^{\infty} (-1)^n a_n R^n$  converges.

$\sum_{n=0}^{\infty} b_n R^n$  is uniformly convergent.

Reload Math Equations

Click to Save Answer & Move to Next Question



Time Left  
55  
sec(s)

## MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:06 AM, 21 November 2023

Question # 1 of 10 ( Start time: 10:06:32 AM, 21 November 2023 )

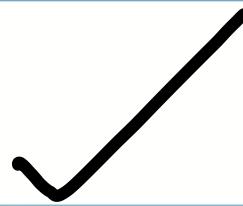
Total Marks: 1

For the sequence of functions  $\{F_n(x)\}$  defined and converges pointwise as;

$F_n(x) = \frac{nx}{1+n^2x^2}, x \in [0, 1]$ , the value of  $\lim_{n \rightarrow \infty} \|F_n(x) - F(x)\|_{[0,1]} \Rightarrow \{F_n(x)\}$  is ---, where  $\lim_{n \rightarrow \infty} F_n(x) = F(x)$ .

Select the correct option

Reload Math Equations

 uniformly convergent not uniformly convergent

Click to Save Answer &amp; Move to Next Question



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10:07 am  
21/11/2023

LMS Quiz For the sequence of functions If the sequence of functions + × ×

eaa4-8e4b-43a1-acaf-82d7679a220d

Time Left 61 sec(s)

MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 10:06 AM, 21 November 2023

Question # 2 of 10 ( Start time: 10:07:33 AM, 21 November 2023 ) Total Marks: 1

If the sequence of functions defined and converges pointwise as,

$$\lim_{n \rightarrow \infty} F_n(x) = \lim_{n \rightarrow \infty} \left(1 - \frac{x_n}{n}\right) = 1 = F(x), 0 \leq x \leq 1.$$

Then the value of  $\sup_{x \in [0,1]} |F_n(x) - F(x)| = 0 \Rightarrow \{F_n(x)\}$  converges ----.

Select the correct option

not uniformly

uniformly

Click to Save Answer & Move to Next Question

Type here to search

10:08 am  
21/11/2023

LMS Quiz

The power series expansion of  $f(x)$  is

=3d3d647f-669c-4d8f-b47d-1138210cf15

Time Left 16 sec(s)

Quiz Start Time: 10:06 AM, 21 November 2023

MTH631 - Real Analysis II (Quiz #1) Total Marks: 1

Question # 3 of 10 (Start time: 10:08:24 AM, 21 November 2023)

The power series expansion of  $f(x) = \sin x$  about  $x_0 = 0$  is

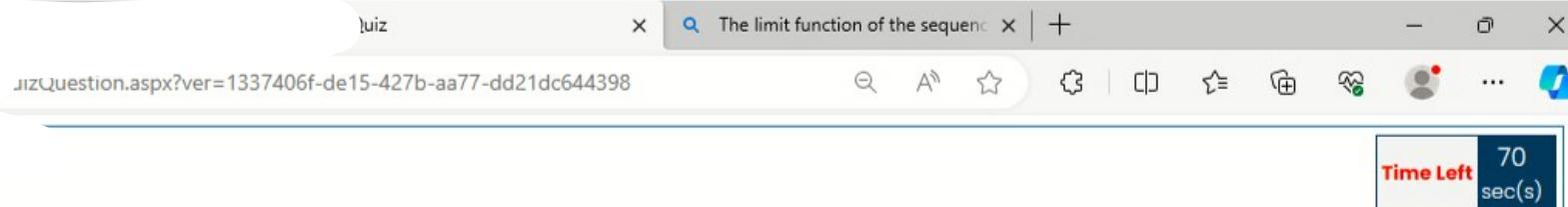
Select the correct option

 Reload Math Equations

- $\sum_{n=0}^{\infty} \frac{x^{2n+1}}{(2n+1)!}, \quad -\infty < x < \infty.$
- $\sin x = \sum_{n=0}^{\infty} (-1)^n \frac{x^{2n}}{(2n)!}, \quad -\infty < x < \infty,$
- $\sum_{n=0}^{\infty} (-1)^n \frac{x^{2n+1}}{(2n+1)!}, \quad -\infty < x < \infty,$
- $\sum_{n=0}^{\infty} \frac{x^{2n}}{(2n)!}, \quad -\infty < x < \infty.$



Click to Save Answer & Move to Next Question



MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:06 AM, 21 November 2023

Total Marks: 1

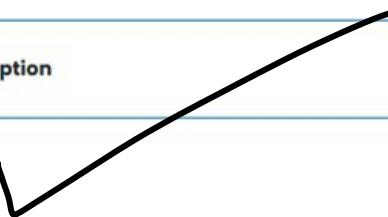
Question # 4 of 10 ( Start time: 10:10:14 AM, 21 November 2023 )

The limit function of the sequence of functions defined by  $F_n(x) = x^n$ ,  $x \in [0, 1]$ , is -----

Select the correct option

Reload Math Equations

Continuous



Discontinuous



Click to Save Answer & Move to Next Question

LMS Quiz

The limit function of the sequ X | For applying Weierstrass' M - X | +

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Time Left 55 sec(s)

MTH631 - Analysis II (Quiz #1) Quiz Start Time: 10:06 AM, 21 November 2023

Question # 5 of 10 ( Start time: 10:10:54 AM, 21 November 2023 )

Total Marks: 1

For applying Weierstrass' M - test, which of the following can be taken as dominating series

$$\text{for the uniform convergence of } \sum_{n=1}^{\infty} \frac{e^{-2nx}}{4n^2 - 1}, x \geq 0?$$

Select the correct option

Reload Math Equations

- ✓  $\sum \frac{1}{4n^2 - 1}$
- $\sum \frac{1}{4n^2}$
- $\sum \frac{1}{e^{2nx}}$
- $\sum \frac{1}{e^{-2nx}}$

Click to Save Answer & Move to Next Question



Type here to search



10:11 am  
21/11/2023

LMS Quiz    X    The limit function of th X    For applying Weierstra X    The limit function of th X    +

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Time Left 51 sec(s)

MTH631 - Real Analysis II (Quiz #1)    Quiz Start Time: 10:06 AM, 21 November 2023

Question # 6 of 10 (Start time: 10:11:49 AM, 21 November 2023)    Total Marks: 1

The limit function of the sequence  $\{F_n(x)\}$  defined by;  
 $F_n(x) = 1 + x + x^2 + \dots + x^{n-1}, x \in [0, 1]$  is ----.

Select the correct option

 Reload Math Equations

not defined



bounded

unbounded

discontinuous in the given domain

Click to Save Answer & Move to Next Question

LMS Quiz    X    The limit function    X    For applying Weierstrass criterion    X    The limit function    X    The condition of absolute convergence    X    +

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MTH631 - Real Analysis II (Quiz #1)    Quiz Start Time: 10:06 AM, 21 November 2023

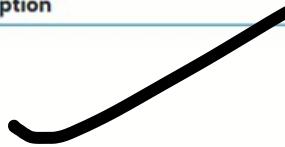
Question # 7 of 10 (Start time: 10:13:00 AM, 21 November 2023)

Total Marks: 1

The condition of absolute convergence (pointwise or uniform) is ----- than the usual convergence(pointwise or uniform).

Select the correct option

stronger



weaker



Click to Save Answer & Move to Next Question

MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:06 AM, 21 November 2023

Question # 8 of 10 ( Start time: 10:13:45 AM, 21 November 2023 )

Total Marks: 1

The method of testing the uniform convergence of a series  $\sum f_j$  of functions by definition is hard because --- .

Select the correct option

Reload Math Equations



finding the  $S_n$  (nth partial sum) is not always easy



checking continuity of each  $f_j$  is not an easy task

Click to Save Answer & Move to Next Question



Type here to search



10:14 am  
21/11/2023

LMS Quiz

The limit function of the sequ X | The uniform convergence of t X | +

question.aspx?ver=b1200cec-1617-4e3e-b9d1-1bbeb29d3896

Time Left 64 sec(s)

MTH631 - Real Analysis II (Quiz #1) Quiz Start Time: 10:06 AM, 21 November 2023

Question # 9 of 10 (Start time: 10:14:34 AM, 21 November 2023) Total Marks: 1

The uniform convergence of the sequence of functions preserves

Select the correct option

continuity and integrability

continuity only

integrability only

continuity and differentiability

Click to Save Answer & Move to Next Question



Time Left  
46  
sec(s)

MTH631 - Real Analysis II (Quiz #1)

Quiz Start Time: 10:06 AM, 21 November 2023

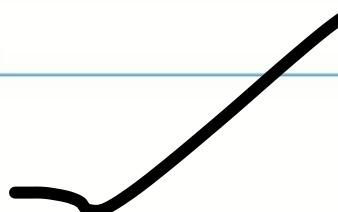
Question # 10 of 10 ( Start time: 10:15:20 AM, 21 November 2023 )

Total Marks: 1

A sequence of integrable functions converging uniformly to an integrable function, the limit of integrals is -----equal to the integral of limit function.

Select the correct option

necessarily



not

Click to Save Answer & Move to Next Question



Type here to search



10:16 am  
21/11/2023