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MC200404821: IMRAN KHAN

Time Left 86 sec(s)

MTH621:Quiz-3

Quiz Start Time: 09:25 PM, 17 August 2021

Question # 2 of 10 (Start time: 09:26:54 PM, 17 August 2021)

Total Marks: 1

Generalized Mean Value Theorem says, If f and g are continuous on the closed interval $[a, b]$ and differentiable on the open interval (a, b), then

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Select the correct option

Reload Math Equations

- $[g(b) - g(a)]f'(c) = [f(b) - f(a)]g'(c)$ for some c in (a, b).
- $g'(x) = 0$ for all x in (a, b).
- $g'(x) = f'(x)$ for all x in (a, b).
- $[g(b) - g(a)] = [f(b) - f(a)]g'(c)$ for some c in (a, b).

Click to Save Answer & Move to Next Question

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MTH621:Quiz-3

Question # 8 of 10 (Start time: 08:50:33 PM, 17 August 2021)

The radius of convergence of the given power series $\sum n!x^n$ *is* $------$.

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Select the correct option

- ○ 1
- ○ 0
- ○ *none of these*
- ○ ∞

R

◁ ○ □

21:06 98
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MTH621:Quiz-3

Question # 1 of 10 (Start time: 09:06:25 PM, 17 August 2021)

The radius of convergence of $\sum a_n (x - x_n)^n$ is given by $---- = \lim_{n\to\infty} |\frac{a_{n+1}}{a_n}|$ if the limit exists in the extended real system.

Select the correct option

- $\frac{1}{R}$
- n
- none of these
- R

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4G 4G 21:12 97

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92: NAVEED IQBAL

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Quiz Start Time: 09:06 PM, 17

of 10 (Start time: 09:12:24 PM, 17 August 2021)

Let f be bounded on $[a,b]$, and let P be a partition on $[a,b]$. Then
The lower sum $s(P)$ of f over P is the $--------$ of the set of all Riemann sums of f over P.

rect option

Reload M

sup *remum*

inf *imum*

R

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4G 4G 21:14 97
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(Start time: 09:14:08 PM, 17 August 2021)

Suppose that f has n derivative at x_o and n is the the smallest positive integer such that $f^n(x_o) \neq 0$. If n is even, x_o is ---------- if $f^{(n)}(x_o) < 0$.

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ption

a local minimum of f.

R

a local maximum of f.

not a local extreme point of f.

None of these

Click to Save Answer & Mov

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992: NAVEED IQBAL
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iz-3
Quiz Start Time: 09:06 PM, 17
of 10 (Start time: 09:14:52 PM, 17 August 2021)

Let f be bounded on $[a,b]$, and let P be a partition on $[a,b]$. Then
The upper sum $s(P)$ of f over P is the $-------$ of the set of all Riemann sums of f over P.

orrect option
Reload M

infimum

supremum

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9:27 PM

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HANGIR

Quiz Start Time: 09:27

09:27:04 PM, 17 August 2021)

If f is ------- on [a, b], then f is not integrable on [a, b].

unbounded

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bounded

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9:30 PM

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MC200403975: MOEEZA JAHANGIR

MTH621:Quiz-3

Question # 5 of 10 (Start time: 09:30:12 PM, 17 August 2021)

The series $\sum(-1)^n a_n$ *converges if* $0 \leq a_{n+1} \leq a_n$ *and* $\lim_{x\to\infty} a_n = ---$

Select the correct option

- -1
- *None of these*
- 1
- 0

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9:31 PM

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Quiz Start

:31:21 PM, 17 August 2021)

If f is unbounded on $[a,b]$, then f is ------- on $[a,b]$.

integrable

R

not integrable

Click to Save Ans

If f is diffrentiable at x_0, then f is continuous at x_0.

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false

true

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Suppose that f has n derivative at x_0 and n is the the smallest positive integer such that $f^n(x_0) \neq 0$. If n is odd, x_0 is ----------.

correct option

None of these

a local maximum *of* f.

not a local extreme point of f.

a local minimum *of* f.

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9:58 PM

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Question # 3 of 10 (Start time: 09:58:46 PM, 17 August 2021)

If $\sum_{n=1}^{\infty} b_n$ is rearrangement of an absolutely convergernt series $\sum_{n=1}^{\infty} a_n$, then $\sum_{n=1}^{\infty} b_n$ also ------ absolutely, and to the same sum.

Select the correct option

- converges
- diverges

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2

Quiz Start Time: 09:55

: 10:00:47 PM, 17 August 2021)

In the Riemann integral $\int_a^b f(x)\,dx$ *, if it exist, is* ------.

different

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unique

R

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MTH621:Quiz-3

Question # 7 of 10 (Start time: 10:02:56 PM, 17 August 2021)

The series $\sum a_n b_n$ converges if $a_{n+1} \leq a_n$ for $n \geq k$, $\lim_{x \to \infty} a_n = 0$, and $|b_k + b_{k+1} + \ldots + b_n| - - - - M$, for some constant M.

Select the correct option

- $\leq$
- None of these
- $<$
- $\geq$

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04:52 PM, 17 August 2021)

If f is continuous at x_o, then f is diffrentiable at x_o.

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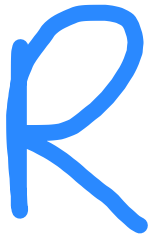

false

true

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The function $g(x) = x^2$ is $-----$ on $[0, \infty)$.

R

inrea sin g

decrea sin g

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Start time: 10:17:27 PM, 17 August 2021)

Suppose that f has n derivative at x_o and n is the the smallest positive integer such that $f^n(x_o) \neq 0$. If n is even, x_o is ---------- if $f^{(n)}(x_o) > 0$.

ption

None of these

a local minimum of f.

not a local extreme point of f.

a local maximum of f.

Click to Save Answer & Move

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10:15 50.0 KB/S 4G 55%
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e: 10:15:52 PM, 17 August 2021)

Investigate the value of $\lim_{x\to\infty} x^{\frac{1}{x}} = ----.$

None of these

0

1

−1

Click to S

10:20 300 KB/S 4G 57%
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:48 PM, 17 August 2021)

Investigate the value of $\lim_{x \to o+} x \log x =$ ----.

1

0

None of these

−1

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uestion # 7 of 10 (Start time: 10:21:59 PM, 17 August 2021)

The radius of convergence of the given power series $\sum \frac{x^n}{n!}$ *is* $-----$.

elect the correct option

○	*None of these*
○	∞
○	1
○	0

R

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Question # 10 of 10 (Start time: 10:25:10 PM, 17 August 2021)

$The\ series\ \sum(-1)^n a_n\ \ ------\ if\ 0 \leq a_{n+1} \leq a_n\ and\ \lim_{x\to\infty}\ a_n = 0$

Select the correct option

○	*converges*
○	*diverges*

R

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Question # 3 of 10 (Start time: 10:38:02 PM, 17 August 2021)

$\lim_{x \to 0+} x \log x$, has the following indeterminate form

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Select the correct option

- $(0)(\infty)$.
- $\infty \times \infty$.
- 0^{∞}.
- $\frac{0}{0}$.

4G 4G 10:39 110 KB/s 62%
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f 10 (Start time: 10:39:39 PM, 17 August 2021)

The function $g(x) = x^2$ is increasing on ------.

rect option

none of these

$[0, \infty)$

$(-\infty, 0)$

$(-\infty, -1)$

Click to Save Ans