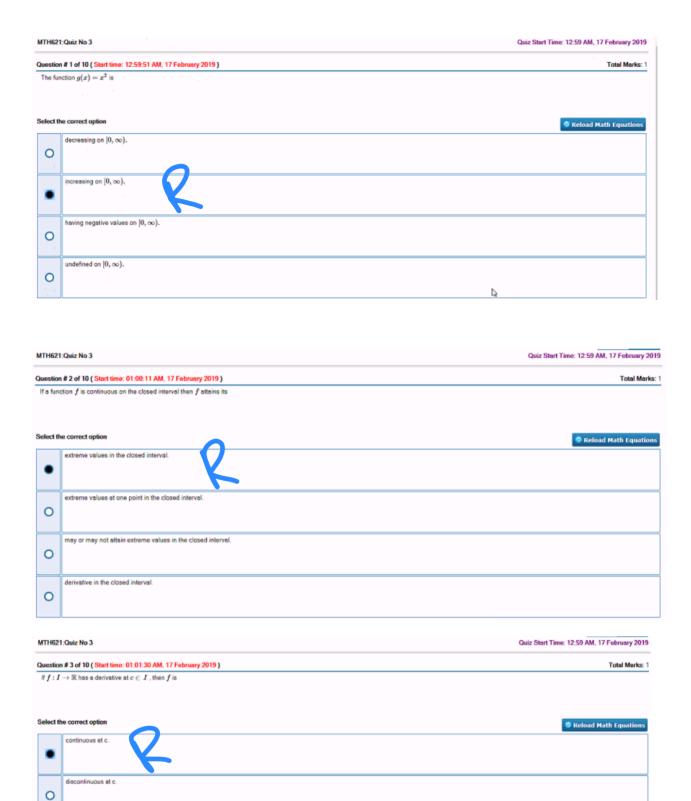
Table of Contents

mth621 reall analysis	2
MTH621-QUIZ#3-FALL-2019-BY-SHAZIA	6
MTH621-QUIZ-3-POINTS-BY-MTA-1	16
MTH621-QUIZ-BY-KINAT-SHAFIQUE-2	17



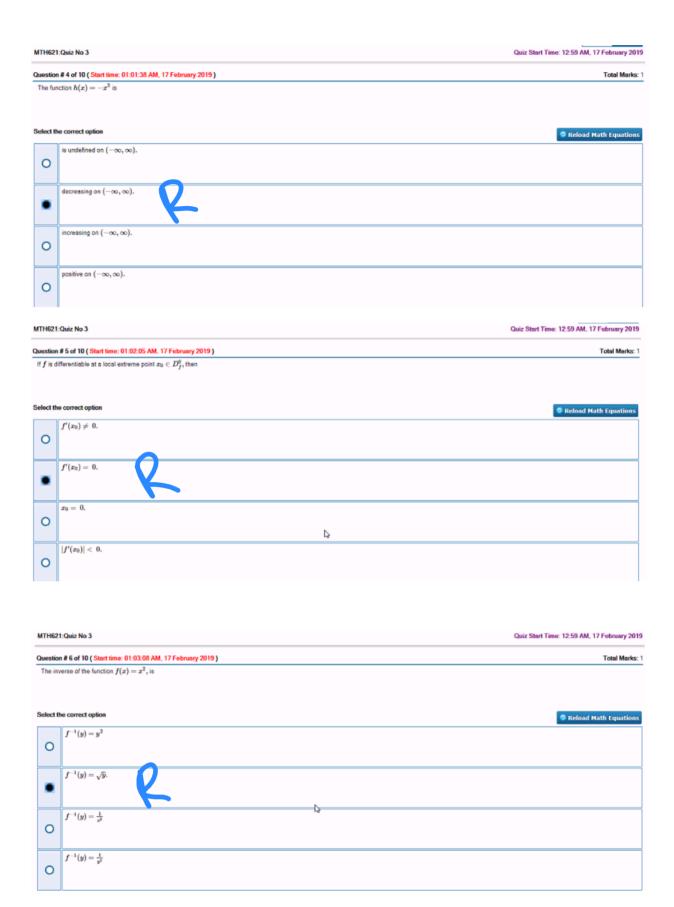
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undefined at c.

having one sided limit.

0

0

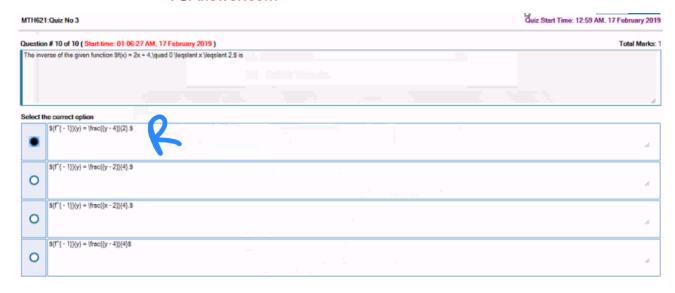


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MTH621:Quiz No 3	Quiz Start Time: 12:59 AM, 17 February 2019			
Question # 7 of 10 (Start time; 01:04:13 AM, 17 February 2019)	Total Marks: 1			
$\lim_{x\to 0+}x\log x$, has the following indeterminate form				
Select the correct option	Reload Math Equations			
∞×∞.				
0				
$(0)(\infty)$.				
$\frac{0}{0}$,				
0				
0%.				
MTH621:Quiz No 3	Quiz Start Time: 12:59 AM, 17 February 2019			
Question # 8 of 10 (Start time: 01:04:21 AM, 17 February 2019)	Total Marks: 1			
Rolle's Theorem says, suppose that f is continuous on the closed interval $[a,b]$ and differentiable on the open interval (a,b) and $f(a)=f(b)$.				
Download More Quizzes Files From				
Select the correct option VUAnswer.com	Reload Math Equations			
Then $f'(c)=0$ for some c in the open interval (a,b) .				
Then $f'(c) eq 0$ for some c in the open interval (a,b) .				
O				
<u> </u>				
Then $f'(c)$ exists for some c in the open interval (a,b) .				
0				
The HIA Above is the state of t				
Then $f'(c)=0$ for some c in the open interval (a,∞) .				
MTH621:Quiz No 3	Quiz Start Time: 12:59 AM. 17 February 2019			
Question # 9 of 10 (Start time: 01:05:10 AM, 17 February 2019)	Total Marks: 1			
The Mean Value Theorem says, suppose that f is differentiable on $[a,b], f'(a) \neq f'(b)$, and μ is between $f'(a)$ and $f'(b)$.				
Download More Quizzes Files From				
Select the correct option	Reload Math Equations			
Then $f'(c) \neq \mu$ for some c in (a,b) . VUAnswer.com				
O VO/MISWELLOOM				
Then $f'(c) = \mu$ for some c in (a,b) .				
Then $f'(c)=0$ for some c in (a,b) .				
Then $f'(c)$ may be 0 or μ for some c in (a,b) .				

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MTH621:Quiz 2		
Questio	n # 9 of 10 (Start time: 02:14:42 PM, 28 November 2017)	
Every 0	Cauchy sequence has a	
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	VUAnswer.com	
Sele	ct the correct option	
0	convergent subsequence.	
0	increasing subsequence.	
0	decreasing subsequence.	
0	positive subsequence. Download More Quizzes Files From	

VI JAnswer com

Question # 10 of 10 (Start time: 03:33:30 PM, 16 February 2019)

Total Marks: 1

The function $f(x) = \begin{cases} x, & 0 \leq x < 1, \\ 2, & 1 \leq x \leq 2, \end{cases}$ is

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Select the correct option

R

VUAnswer.com

Reload Math Equations

0

 $I=[0,2]\,.$

is nonincreasing on

I=[0,2].

is having negative values on

is nondecreasing on

I = [0, 2].

is undefined on

I = [0, 2].

Quiz Start Time: 03:26 PM, 16 February 2019

Question # 8 of 10 (Start time: 03:32:16 PM, 16 February 2019)

Total Marks: 1

The function $h(x) = -x^3$ is

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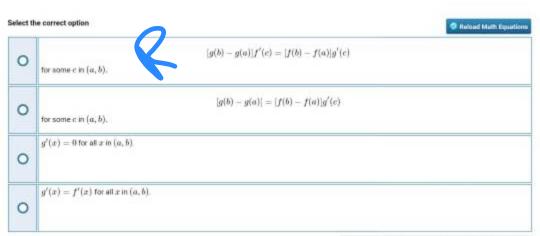
Select t	he correct option VUAr	nswer.com	• Refeat Math Equations	
0	is undefined on $(-\infty,\infty)$.			
0	decreesing on $(-\infty,\infty)$.			
0	increasing on $(-\infty,\infty)$.			
0	positive on $\langle -\infty, \infty \rangle$.			

Quiz Start Time: 03:26 PM, 16 February 2019

Question # 7 of 10 (Start time: 03:31:31 PM, 16 February 2019)

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



having negative values on $[0, \infty)$.

0

Quiz Start Time: 03:26 PM, 16 February 2019

Question # 5 of 10 (Start time: 03:30:23 PM, 16 February 2019)

Total Marks: T

The Mean Value Theorem says, suppose that f is differentiable on [a,b], $f'(a) \neq f'(b)$, and μ is between f'(a) and f'(b).

Calant	the	Ann	-	milion

Relead Math Equations

Then $f'(c) = \mu$ for some c in (a, b).

Then $f'(c) \neq \mu$ for some c in (a, b).

Then f'(c) = 0 for some c in (a, b).

Then f'(c) may be 0 or μ for some c in $\{a,b\}$.

MTH62	MTH621:Quiz No 3					
Question	Question # 2 of 10 (Start time: 03:28:07 PM, 16 February 2019)					
If f : 1	$I o \mathbb{R}$ has a derivative at $c \in I$, then f is					
Select ti	the correct option					
•	continuous at c.					
0	discontinuous at c.					
0	undefined at c.					
0	having one sided limit. Type text here					

Question # 4 of 10 (Start time: 03:29:43 PM, 16 February 2019)

The derivative of the function x^n is

Select the correct option

0.00.000.000.00	185-12-00-1-10-1-15-00-10-10-10-10-10-10-10-10-10-10-10-10-	
0	x^{n-1} ,	
0		Download More Quizzes Files Fron
0	$\frac{u}{x^{n-1}}$.	
0	nx^n .	

Quiz Start Time: 03:26 PM, 16 February 2019

Question # 3 of 10 (Start time: 03:28:42 PM, 16 February 2019)

Total Marks: 1

If a function f is continuous on the closed interval then f attains its

Select the correct option		Reford Math Equations
0	extreme values in the closed interval.	
0	extreme values at one point in the closed interval.	
0	may or may not attain extreme values in the closed interval.	
0	derivative in the closed interval.	

Quiz Start Time: 03:26 PM, 16 February 201

Question # 9 of 10 (Start time: 03:33:11 PM, 16 February 2019)

Total Marks

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

Select the correct option

Ruload Math Equation

- 0 × ∞.
 - (0)(∞).
 - 0 8
 - 0~.

IMPORTANT POINTS TO REVIEW BEFORE SOLVING MTH621-QUIZ#3------BY MTA@17FEB2019

It is not useful to define $\infty-\infty$, $0\cdot\infty$, ∞/∞ , and 0/0. They are called indeterminate forms, and left unde_ned.

The function
$$f(x) = \begin{cases} x, & 0 \le x < 1, \\ 2, & 1 \le x \le 2, \end{cases}$$
 is nondecreasing on $I = [0, 2]$.

The function g(x) = x2 is increasing on $[0,\infty)$. The function h(x) = -x3 is decreasing on $(-\infty,\infty)$.

If f and g are continuous on the closed interval [a, b] and di_erentiable on the open interval (a, b), then

$$[g(b) - g(a)]f'(c) = [f(b) - f(a)]g'(c)$$

The derivative of the function x^n is nx^{n-1}

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Recall the following: If a function f is continuous on the closed interval then f attains its extreme values in the closed interval.

The inverse of the given function is $f^{-1}(y) = g(y) = \sqrt{y}$, $0 < y < R^2$

Suppose that f is continuous on the closed interval [a, b] and di_erentiable on the open interval (a, b), and f(a) = f(b). Then f'(c) = 0 for some c in the open interval (a, b).

