for solutions go to this link--------> https://youtu.be/1pCwkayMCXo

Question # 8 of 10 (Start time: 07:35:18 AM, 19 December 2021)

If (0,0) and (2,2) are any two points on a curve then the slope of a line parallel to the secant segment through these points is _____.

Note : if you think that speed of video is slow than increae upto 2x

Select the correct option

●	1
○	-2
○	2
○	-1

https://youtu.be/1pCwkayMCXo

Question # 10 of 10 (Start time: 07:21:41 AM, 19 December 2021)

A function f(x) = x / |x| is

Select the correct option

- (●) continuous at x = 1
- ( ) not continuous at x = 1

Question # 3 of 10 (Start time: 07:23:50 AM, 19 December 2021)

For the curve: $f(t) = -2t+3$, the instantaneous rate of change of '$f(t)$' at '$t = 1$' is _____.

https://youtu.be/1pCwkayMCXo

Select the correct option

- ○ -1
- ○ -2 
- ● 1
- ○ 2

Question # 4 of 10 (Start time: 07:15:03 AM, 19 December 2021)

A function is continuous on an interval if it is continuous ..... of the interval.

https://youtu.be/1pCwkayMCXo

Select the correct option

- (●) At the end points
- ( ) At every point
- ( ) At some points
- ( ) None of these

Question # 6 of 10 (Start time: 07:17:18 AM, 19 December 2021)

For the curve f(t) = -23t+25, the slope of the tangent line at point 't = -1' is _____.

- -23t+25

Select the correct option

○	25
○	-23
○	-25
○	23

Question # 7 of 10 (Start time: 07:18:52 AM, 19 December 2021)

The equation of tangent line at the point P(2,3) to the curve y = 3 x^2 having slope 12 is _____.

https://youtu.be/1pCwkayMCXo

Select the correct option

○	y+12 x + 21 = 0
○	y-12 x - 21 = 0
○	y-12 x + 21 = 0
○	None of these.

Question # 1 of 10 (Start time: 07:10:58 AM, 19 December 2021)

Is the function $f(x) = \tan(x)$ continuous at $x = pi$? If not, why?

https://youtu.be/1pCwkayMCXo

Select the correct option

- f is continuous at $x = pi$.
- f (pi) is not defined.

Question # 2 of 10 (Start time: 07:12:32 AM, 19 December 2021)

If y=x^2 then average rate of change of y with respect to x over the interval [1, 2] is
NOTE: x^n means 'x' to the power 'n'

Select the correct option

○	1
○	2
○	None of these
●	3

Question # 3 of 10 (Start time: 07:13:58 AM, 19 December 2021)

Average rate of change in 'y' w.r.t 'x' represents the slope of ..... line on the graph.

https://youtu.be/1pCwkayMCXo

Select the correct option

- (●) secant
- ( ) parabola
- ( ) tangent
- ( ) circle

Question # 5 of 10 (Start time: 07:16:36 AM, 19 December 2021)

To find the slope of tangent line at a particular point along a curve , you have to calculate .....

Select the correct option

- ○ displacement
- ○ acceleration
- ○ instantaneous velocity
- ● average velocity

Question # 8 of 10 (Start time: 07:20:24 AM, 19 December 2021)

e (epsilon) used in the definition of limit can be a negative number.

e>0 , e can't <0

Select the correct option

- (●) False
- ( ) True

Question # 9 of 10 (Start time: 07:21:07 AM, 19 December 2021)

$$\lim_{x \to 0^+} \frac{1}{x} =$$

https://youtu.be/1pCwkayMCXo

Select the correct option

- ○ 0
- ● $+\infty$
- ○ 1
- ○ $-\infty$

Question # 1 of 10 (Start time: 07:23:04 AM, 19 December 2021)

Average velocity is obtained by divding the .....

=total distance traveled/total time

Select the correct option

- (●) Total distance by time elapsed
- ( ) Total distance by velocity elapsed

Question # 4 of 10 (Start time: 07:24:37 AM, 19 December 2021)

The inequality L-e < f(x) < L+ e can be written as .....

Select the correct option

●	$\lvert f(x)- L \rvert < e$
○	$\lvert f(x)- L \rvert > e$
○	$\lvert f(x)- e \rvert > L$
○	$\lvert f(x)- e \rvert < L$

Question # 5 of 10 (Start time: 07:25:05 AM, 19 December 2021)

If y = x^2, then which of the following is true about it over the interval [3, 4]
NOTE:- where x^n denotes the nth power of x.

https://youtu.be/1pCwkayMCXo

Select the correct option

○	Its average rate of change is 8.
○	None of these.
○	Its average rate of change is 9.
●	Its average rate of change is 7.

Question # 7 of 10 (Start time: 07:27:15 AM, 19 December 2021)

A function $f(x) = x / |x|$ is

Select the correct option

- continuous at $x = 1$
- not continuous at $x = 1$

Question # 8 of 10 (Start time: 07:27:36 AM, 19 December 2021)

For the curve: $f(t) = -2t+3$, the instantaneous rate of change of '$f(t)$' at '$t = a$' is _____.

https://youtu.be/1pCwkayMCXo

Select the correct option

- 2
- 1
- -1
- -2

Question # 9 of 10 (Start time: 07:28:36 AM, 19 December 2021)

The slope of the horizontal line is _____.

Select the correct option

●	Zero
○	Undefined
○	Less than zero
○	Greater than zero

Quiz

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=cb8112f7-9657-471a-bacd-3c56b5d44c60

YouTube Eric Weisstein's Wor...

0:01:06

Question # 1 of 10 (Start time: 01:32:37 PM, 19 December 2021)

What is the value of cosx / x ; as x approaches to pi.?

https://youtu.be/1pCwkayMCXo

Select the correct option

- pi
- 0
- pi/2
- - 1/pi

Quiz

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=a4e5e2a4-a734-4073-bef4-573912042675

YouTube Eric Weisstein's Wor...

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Question # 5 of 10 (Start time: 01:36:48 PM, 19 December 2021)

A function f is said to be continuous on a closed interval [a, b] if f is continuous from the right at "a" and "f" is continuous from the left at "b" and "f" is continuous on

Select the correct option

- (a, b)
- [a,b]
- (a,b]
- [a,b)

Quiz

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=9aa2d850-f103-451b-b259-dee9009cf8e0

YouTube Eric Weisstein's Wor...

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sec(s)

BC210402150: DILSHAD AHMAD

MTH101 - Calculus And Analytical Geometry (Quiz 1)

Quiz Start Time: 01:32 PM, 19 December 2021

Question # 6 of 10 (Start time: 01:38:11 PM, 19 December 2021)

Total Marks: 1

$$\lim_{x \to +\infty} \left(\frac{9x^2}{3x^3} \right) =$$

Select the correct option

Reload Math Equations

- 0
- $+\infty$
- 3
- $-\infty$

Question # 7 of 10 (Start time: 01:38:55 PM, 19 December 2021)

If a secant line is drawn between two points P and Q on a curve, then the slope of this secant line=_____.

Select the correct option

- f(x2)-f(x1)/x2
- f(x1)-f(x2)/x2-x1
- f(x2)-f(x1)
- {f(x2)-f(x1)}/(x2-x1)

Quiz

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=40974a5e-44c4-49c3-82ec-9732651fa226

YouTube Eric Weisstein's Wor...

0:08:27

BC210402150: DILSHAD AHMAD

Time Left 61 sec(s)

MTH101 - Calculus And Analytical Geometry (Quiz 1)

Quiz Start Time: 01:32 PM, 19 December 2021

Question # 8 of 10 (Start time: 01:40:12 PM, 19 December 2021) **Total Marks:** 1

The average rate of change of y = 1 / x, over the interval [2, 3] is _____.

https://youtu.be/1pCwkayMCXo

Select the correct option

- 2/3.
- -1/6.
- None of these.

Quiz

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=e6885939-8fbd-46fd-a46b-3ff53131f6cb

YouTube Eric Weisstein's Wor...

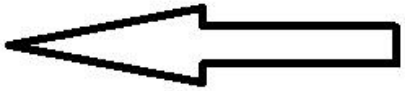
0:09:11

Question # 9 of 10 (Start time: 01:41:02 PM, 19 December 2021) **Total Marks:**

A limit of a function f (x) exists when _____.

Select the correct option

- Both left hand and right hand limits are not equal.
- Both left hand and right hand limits are equal.



Quiz

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=08e2e7bd-936a-41c1-9fc2-812a163f0eec

YouTube Eric Weisstein's Wor...

0:09:40

BC210402150: DILSHAD AHMAD

Time Left 77 sec(s)

MTH101 - Calculus And Analytical Geometry (Quiz 1)

Quiz Start Time: 01:32 PM, 19 December 202

Question # 10 of 10 (Start time: 01:41:42 PM, 19 December 2021)

Total Marks:

If a car travels 150 miles over a straight road in 3 hours, then its average velocity during the trip is .....

Select the correct option

- 50m/h
- 60m/h
- 30m/h

Question # 10 of 10 (Start time: 07:29:18 AM, 19 December 2021)

$$\lim_{x \to 3}\left(\frac{x^2-9}{x-3}\right) =$$

Select the correct option

●	6
○	3
○	0
○	∞

Question # 1 of 10 (Start time: 07:30:23 AM, 19 December 2021)

The limit of $f(x)$ as x approaches to 1 from the right is equal to L is represented by the notation

Select the correct option

Reload

- $\lim_{x \to L} f(x) = 1$
- $\lim_{x \to 1^-} f(x) = L$
- $\lim_{x \to 1^+} f(x) = L$
- $\lim_{x \to 1} f(x) = L$

Question # 3 of 10 (Start time: 07:31:04 AM, 19 December 2021)

If f(x) approaches to L as x approaches to a from left and right, then f(x) is in the interval

Select the correct option

- (L- e , L+ e) where e is a small positive number.
- (-8 , +8)
- Not defined
- (L- 1 , L+ 1)

Question # 4 of 10 (Start time: 07:32:14 AM, 19 December 2021)

$|x-3| < 1$ implies.....

https://youtu.be/1pCwkayMCXo

Select the correct option

- (●) $2 < x < 4$
- ( ) $-2 < x < -4$
- ( ) $x-3 < 1$
- ( ) $-4 < x < 4$

Question # 5 of 10 (Start time: 07:33:47 AM, 19 December 2021)

The average rate of change of $y = 1 / x$, over the interval $[2, 3]$ is _____.

Select the correct option

○	2/3.
○	1/6.
○	None of these.
●	-1/6.

Question # 6 of 10 (Start time: 07:34:21 AM, 19 December 2021)

If a body in the time interval of five minutes, covers the distance of five hundred meters then its average speed is ------

=dv/dt = 500/5=100

Select the correct option

- (●) 100 meter/min
- ( ) 505 meter/min
- ( ) 25 meter/min
- ( ) 2500 meter/min

Question # 7 of 10 (Start time: 07:34:59 AM, 19 December 2021)

The limit of $f(x)$ as x approaches to 1 from the left is equal to L is represented by the notation

Select the correct option

Reload Ma

- $\lim_{x \to 1^+} f(x) = L$
- $\lim_{x \to L} f(x) = 1$
- $\lim_{x \to 1} f(x) = L$
- $\lim_{x \to 1^-} f(x) = L$

Question # 10 of 10 (Start time: 07:36:42 AM, 19 December 2021)

What is the average rate of change of y with respect to x over the interval [0,1]
if y=6x^2
NOTE: x^n means 'x' to the power 'n'

https://youtu.be/1pCwkayMCXo

Select the correct option

○	5
○	None of these
●	6
○	4

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=bb97c7cf-a074-40d5-a8a6-f3ccb8a9d011

BC210401698: MUHAMMAD AKRAM

MTH101 - Calculus And Analytical Geometry (Quiz 1)

Question # 1 of 10 (Start time: 04:02:35 PM, 20 December 2021)

Slope of secant line joining points (1,1) and (3,4) is_____.

Select the correct option

- 1.5
- 1
- None of these
- 1.3

Virtual University of Pakistan | Quiz

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=6390fafd-38cb-4315-94c0-a

BC210401698: MUHAMMAD AKRAM

MTH101 - Calculus And Analytical Geometry (Quiz 1)

Question # 2 of 10 (Start time: 04:03:36 PM, 20 December 2021)

Let R and S be reflexive relations on a set A then _____.

Select the correct option

- Neither R union S is reflexive nor R intersection S is reflexive
- Both R union S and R intersection S are reflexive
- R union S is reflexive
- R intersection S is reflexive

Question # 3 of 10 (Start time: 04:05:29 PM, 20 December 2021)

In order to find the area under a curve we approximate the area by using

Select the correct option

- None of these
- Hexagons
- Circles
- Rectangles

Question # 4 of 10 (Start time: 04:06:34 PM, 20 December 2021)

If the graph of a function oscillates between 1 and -1 then its limit is

Select the correct option

- Does not exist
- -1
- 0
- 1

Question # 5 of 10 (Start time: 04:07:50 PM, 20 December 2021)

A function f is called continuous from the left at point c if f(c) is defined and left hand limit f(x) exist and

https://youtu.be/1pCwkayMCXo

Select the correct option

- left hand limit f(x)= f(c)
- left hand limit f(x) = right hand limit f(x)= f(c)
- None of these
- right hand limit f(x)= f(c)

Question # 6 of 10 (Start time: 04:09:10 PM, 20 December 2021)

The functions sinx and cosx are

Select the correct option

- Continuous
- Discontinuous

Question # 7 of 10 (Start time: 04:10:18 PM, 20 December 2021)

180 degree = _____ radians

1 rad = 57.3 degree

Select the correct option

- π
- $\frac{\pi}{180}$
- 1
- $-\pi$

Question # 9 of 10 (Start time: 04:12:11 PM, 20 December 2021)

A bus travels 175 miles in 2.5 hours. Its average velocity will be.....

=175/2.5 = 70

Select the correct option

- ○ 70m/h
- ○ 90m/h
- ○ 80m/h
- ○ 60m/h

Question # 3 of 10 (Start time: 04:13:40 PM, 20 December 2021)

Let y = x^2+1
Then the instantaneous rate of change of y with respect to x at the point -2 is

d/dx(x^2+1)=2x=-4

https://youtu.be/1pCwkayMCXo

Select the correct option

○	0
●	-4
○	3
○	-1

Question # 10 of 10 (Start time: 04:13:37 PM, 20 December 2021)

$\lim\ [f(x)]^n =$

Select the correct option

- $n[limf(x)]$
- $[limf(x)]$
-
- $[limf(x)]^n$

Question # 5 of 10 (Start time: 04:17:29 PM, 20 December 2021) Total Marks: 1

If(x approaches to 2) lim 3x-5=1 In this statement the limiting value of 3x-5 is .....

lim 3x-5=1 then 3x-5 is

Select the correct option

○	2
○	1

Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 04:19:24 PM, 20 December 2021) **Total Marks:** 1

A function f is said to be continuous on a closed interval [a, b] if f is continuous from the right at "a" and "f" is continuous from the left at "b" and "f" is continuous on

Select the correct option

●	(a, b)
○	[a,b)
○	(a,b]
○	[a,b]

Click to Save Answer & Move to Next Question

Question # 7 of 10 (Start time: 04:20:21 PM, 20 December 2021) **Total Marks: 1**

Average rate of change in 'y' w.r.t 'x' represents the slope of ____ line on the graph

Select the correct option

- tangent
- parabola
- secant
- circle

Click to Save Answer & Move to Next Question

Question # 8 of 10 (Start time: 04:22:14 PM, 20 December 2021) Total Marks: 1

If the function f and g are continuous at c then f/g is continuous at c if

Select the correct option

- f(x)=0
- f(x) is not equal to zero
- g(x)is not equal to zero
- g(x)=0

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 04:24:05 PM, 20 December 2021)

What is the value of sinx / x ; as x approaches to zero?

https://youtu.be/1pCwkayMCXo

Select the correct option

●	1
○	pi / 2
○	0
○	Undefined

Click to Save

Question # 10 of 10 (Start time: 04:25:13 PM, 20 December 2021) Total Marks: 1

The limit of $f(x)$ as x approaches to 1 from the right is equal to L is represented by the notation

Select the correct option

Reload Math Equations

- $\lim_{x \to 1^-} f(x) = L$
- $\lim_{x \to L} f(x) = 1$
- $\lim_{x \to 1^+} f(x) = L$
- $\lim_{x \to 1} f(x) = L$

Question # 1 of 10 (Start time: 07:15:06 PM, 20 December 2021) **Total Marks:** 1

If the function f and g are continuous at c, then
f o g is ..... at c.

Select the correct option

- Discontinuous
- Continuous

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 07:18:32 PM, 20 December 2021) **Total Marks:** 1

If y=f(x) then the average rate of change of y with respect to x over the interval [x0,x1] is slope of tangent line joining at (x0,f(x0)).

Select the correct option

- ○ True
- ○ False

https://youtu.be/1pCwkayMCXo

Click to Save Answer & Move to Next Question

If the function f and g are continuous at c then f/g is continuous at c if g(x) is not equal to zero and is discontinuous at c if

Select the correct option

○	f(x) is not equal to zero
○	g(x)=0
○	g(x)is not equal to zero
○	f(x)=0

Click to Save Answer & Move to Next Question

MTH101 - Calculus And Analytical Geometry (Quiz 1) **Quiz Start Time: 06:51 PM, 20 December 20**

Question # 10 of 10 (Start time: 07:05:26 PM, 20 December 2021) **Total Mark**

Is the function $f(x) = 1/(x+1)$ continuous at $x = 1$? If not, why?

Select the correct option

- f is not continuous at x = 1.
- f is continuous at x = 1

Quiz

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=8e0f7365-0ed9-4b2c-b687-0338fe1f4275

BC2 N

Time Left 44 sec(s)

MTH101 - Calculus And Analytical Geometry (Quiz 1)

Quiz Start Time: 09:40 AM, 19 December 2021

Question # 1 of 10 (Start time: 09:40:58 AM, 19 December 2021) **Total Marks: 1**

$\lim_{x \to 1}\left(\frac{x^2-1}{x-1}\right) =$

Select the correct option

Reload Math Equations

- (○) 2
- ( ) 0
- (●) 1
- ( ) ∞

Click to Save Answer & Move to Next Question

Search the web and Windows

ENG 12/18/2021

There is one-to-one correspondence between the points on co-ordinate line and _____

Select the correct option

- ○ Set of natural numbers
- ○ Set of integers
- ○ Set of irrational numbers
- ○ Set of real numbers

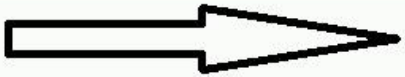
Click to Save Answer & Mov

Let $f(x) = x^2 + 1$ and $g(x) = 2x$ then $f(g(x)) = ?$

Select the correct option

Re

- $4x^2 - 1$
- $4x^2 + 1$
- $4x^2 + 4$
- $x^2 + 4$



Click to Save Answer & Mov

Graph of $y = x^2 + 4$ *is same as* ..... *but it has been translated* 4 *units up in the* y *direction.*

Select the correct option

○	$y = x^2 + 2$
○	$y = x^2 - 2$
○	$y = x^2$
○	None of these

Re

Click to Save A... & Mov

Graph of the equation $y = x + 3$ represents a .....

Select the correct option

Re

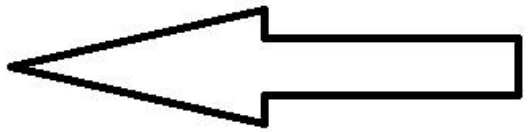
- ○ Cirle
- ○ Line
- ■ Parabola
- ○ Ellipse

Click to Save Answer & Mov

If y=f(x) then instantaneous rate of change of y with respect to x at the point x0 is given by slope of tangent line at (x0,f(x0))

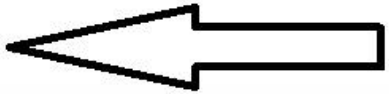
Select the correct option

- False
- True



The slope of the horizontal line is _____.

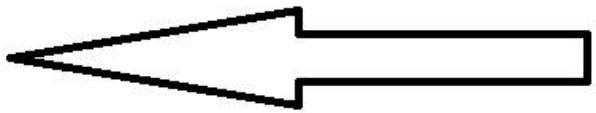
Select the correct option

- (●) Zero 
- ( ) Undefined
- ( ) Greater than zero
- ( ) Less than zero

A limit of a function f (x) exists when _____.

Select the correct option

- ○ Both left hand and right hand limits are not equal.
- ◉ Both left hand and right hand limits are equal.



What is the value of cosx / x ; as x approaches to pi.?

https://youtu.be/1pCwkayMCXo

Select the correct option

- [x] - pi
- [ ] 0
- [ ] - 1/pi
- [ ] pi/2

Question # 6 of 10 (Start time: 07:00:07 PM, 20 December 2021) Total Mark

The inequality L-e < f(x) < L+ e can be written as .....

Select the correct option

- | f(x)- e | < L
- | f(x)- L | > e
- | f(x)- L | < e

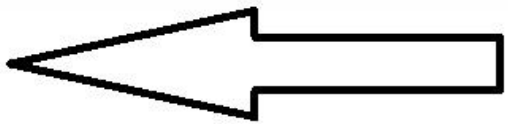
MTH101 - Calculus And Analytical Geometry (Quiz 1) **Quiz Start Time: 06:51 PM, 20 December 20**

Question # 7 of 10 (Start time: 07:01:49 PM, 20 December 2021) **Total Mark**

Let a car moves from lower mall with the average velocity of 100 km/h and after covering the distance 50 km , the car reach at the airport Lahore. The time elapsed is

Select the correct option

- (●) 1/2
- ( ) None of these
- ( ) 2

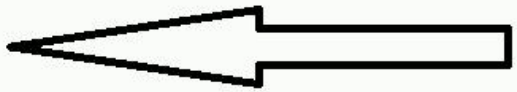


Which of the following is radius of a circle represented by equation : $x^2 + y^2 = 25$?

Select the correct option

Re

- 25
- 5
- 1
- 0

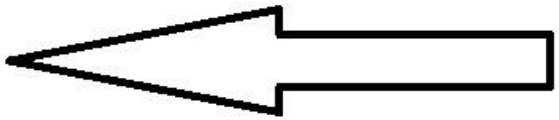


Click to Save Answer & Mov

If y=f(x) then the average rate of change of y with respect to x over the interval [x0,x1] is slope of tangent line joining at (x0,f(x0)).

Select the correct option

- ○ True
- ● False

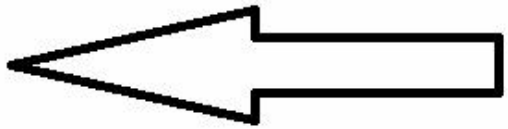


Question # 1 of 10 (Start time: 07:28:57 AM, 19 December 2021) **Total Marks:**

Is the function f(x)= e^(lnx) continuous at x=0 ? If not, why?

Select the correct option

- f(0) is not defined.
- f is continuous at x = 0.

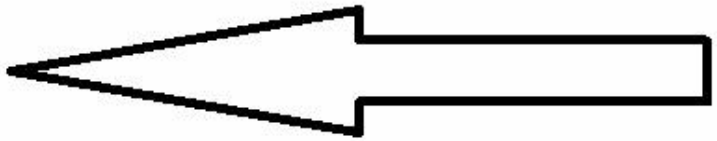


Click to Save Answer & Move to Next Question

elect the correct option

f(0) is not defined.

f is continuous at x = 0.



Click to Save Answer & Move to Next Question

MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 07:28 AM, 19 December 2021

Question # 2 of 10 (Start time: 07:29:22 AM, 19 December 2021) **Total Marks:**

e (epsilon) used in the definition of limit can be a negative number.

Select the correct option

- False
- True

Click to Save Answer & Move to Next Question

MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 07:28 AM, 19 December 2021

Question # 3 of 10 (Start time: 07:30:19 AM, 19 December 2021) **Total Marks:**

If the function f and g are continuous at c then f/g is continuous at c if

Select the correct option

- f(x) is not equal to zero
- g(x)=0
- g(x)is not equal to zero
- f(x)=0

Click to Save Answer & Move to Next Question

MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 07:26 AM, 19 December 2021

Question # 4 of 10 (Start time: 07:30:48 AM, 19 December 2021) **Total Marks:**

$$\lim_{x \to 0} x^{-2} =$$

Select the correct option

Reload Math Equations

- -2
- 1
- 0
- ∞

Click to Save Answer & Move to Next Question

MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 07:26 AM, 19 December 2021

Question # 5 of 10 (Start time: 07:31:04 AM, 19 December 2021) **Total Marks:**

Velocity is the rate of change of position w.r.t .....

Select the correct option

- force
- displacement
- acceleration
- time

Click to Save Answer & Move to Next Question

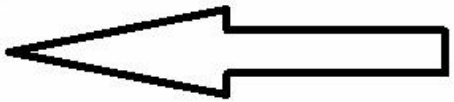
MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 07:26 AM, 19 December 2021

Question # 6 of 10 (Start time: 07:32:35 AM, 19 December 2021) **Total Marks:**

Let R and S be reflexive relations on a set A then _____.

Select the correct option

- R intersection S is reflexive
- Neither R union S is reflexive nor R intersection S is reflexive
- R union S is reflexive
- Both R union S and R intersection S are reflexive



Click to Save Answer & Move to Next Question

MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 07:26 AM, 19 December 2021

Question # 7 of 10 (Start time: 07:34:31 AM, 19 December 2021) **Total Marks:**

A function f is continuous at a point x = a if and only if f(a) is defined, lim f(x) as x approached to "a" exists and .....

https://youtu.be/1pCwkayMCXo

KINEMASTER

Select the correct option

- lim f(x)<f (a)
- lim f(x)= f (a)
- lim f(x) is not equal to f (a)
- lim f(x)> f (a)

Click to Save Answer & Move to Next Question

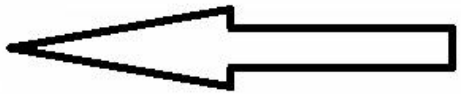
MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 07:26 AM, 19 December 2021

Question # 8 of 10 (Start time: 07:34:56 AM, 19 December 2021) **Total Marks:**

What is the value of (Cosx.Tanx)/x ; as x approaches to zero.?

Select the correct option

- None of these
- pi/2
- 1
- 0



Click to Save Answer & Move to Next Question

MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 07:26 AM, 19 December 2021

Question # 8 of 10 (Start time: 07:34:56 AM, 19 December 2021) **Total Marks:**

What is the value of (Cosx.Tanx)/x ; as x approaches to zero.?

Select the correct option

- None of these
- pi/2
- 1
- 0

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 06:00:52 PM, 19 December 2021) **Total Marks:** 1

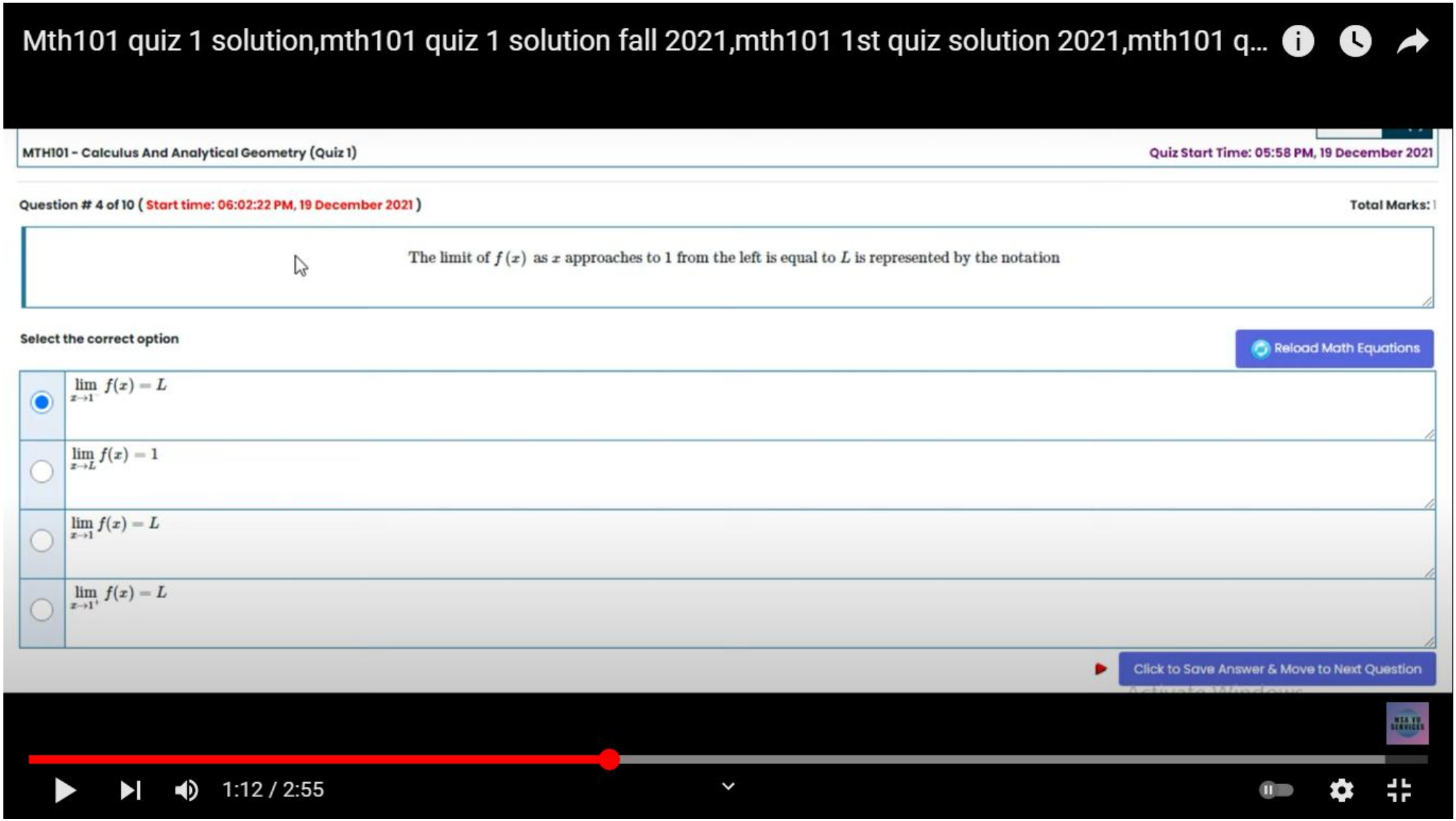
The instantaneous rate of change of y = x^2 + 4 with respect to x at x = 2 is_____.
NOTE:- where x^n denotes the nth power of x.

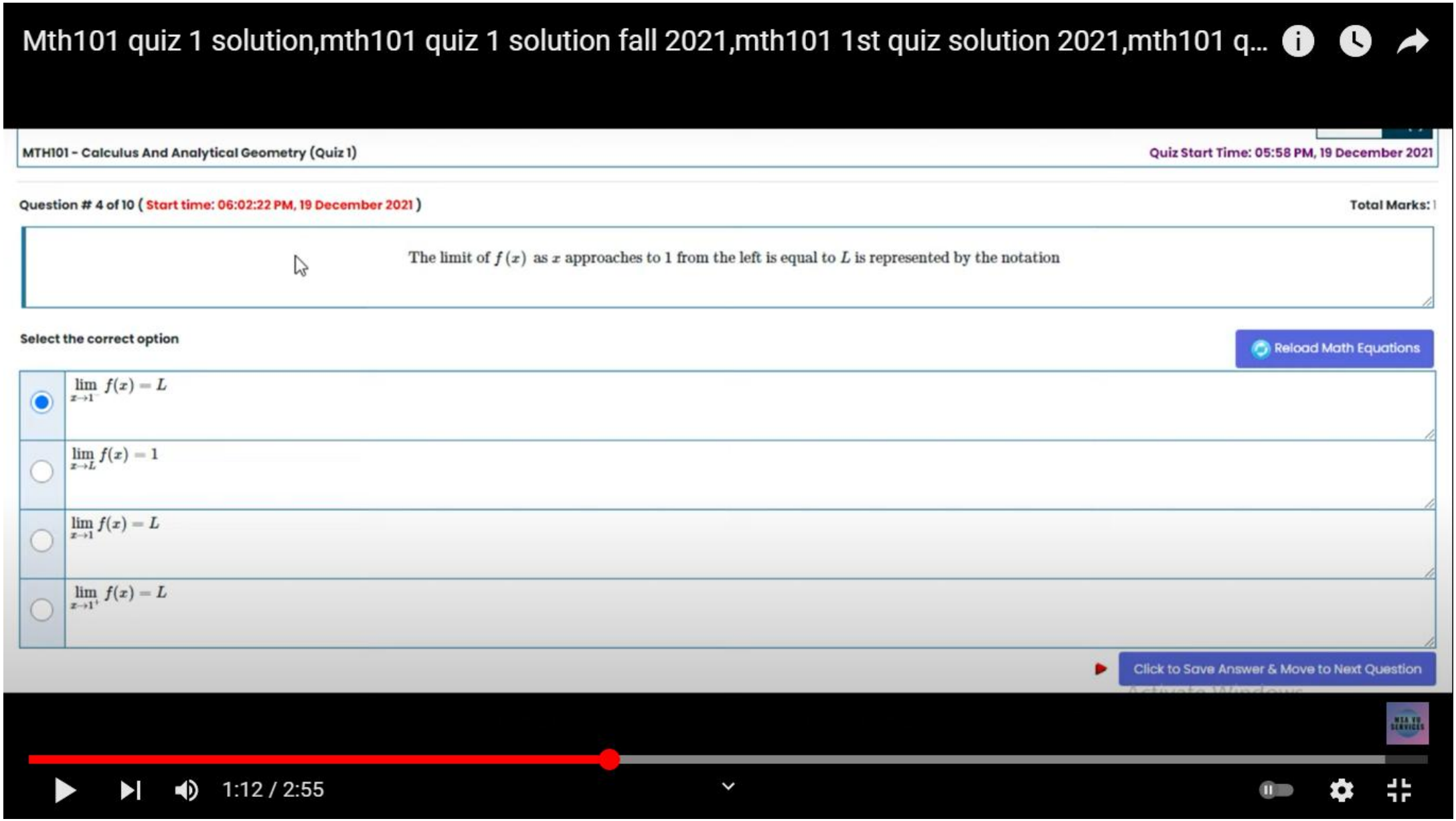
https://youtu.be/1pCwkayMCXo

Select the correct option

- 10
- 30
- 4
- 20

Click to Save Answer & Move to Next Ques


Mth101 quiz 1 solution,mth101 quiz 1 solution fall 2021,mth101 1st quiz solution 2021,mth101 q...
MTH101 - Calculus And Analytical Geometry (Quiz 1)
Quiz Start Time: 05:58 PM, 19 December 2021
Question # 4 of 10 (Start time: 06:02:22 PM, 19 December 2021)
Total Marks:
The limit of $f(x)$ as x approaches to 1 from the left is equal to L is represented by the notation
Select the correct option
Reload Math Equations
$\lim_{x \to 1} f(x) = L$
$\lim_{x \to L} f(x) = 1$
$\lim_{x \to 1} f(x) = L$
$\lim_{x \to 1^+} f(x) = L$
Click to Save Answer & Move to Next Question
1:12 / 2:55


Mth101 quiz 1 solution,mth101 quiz 1 solution fall 2021,mth101 1st quiz solution 2021,mth101 q...
MTH101 - Calculus And Analytical Geometry (Quiz 1)
Quiz Start Time: 05:58 PM, 19 December 2021
Question # 4 of 10 (Start time: 06:02:22 PM, 19 December 2021)
Total Marks:
The limit of $f(x)$ as x approaches to 1 from the left is equal to L is represented by the notation
Select the correct option
Reload Math Equations
$\lim_{x \to 1} f(x) = L$
$\lim_{x \to L} f(x) = 1$
$\lim_{x \to 1} f(x) = L$
$\lim_{x \to 1^+} f(x) = L$
Click to Save Answer & Move to Next Question
1:12 / 2:55

Mth101 quiz 1 solution,mth101 quiz 1 solution fall 2021,mth101 1st quiz solution 2021,mth101 q...

Question # 7 of 10 (Start time: 06:06:28 PM, 19 December 2021) **Total Marks:** 1

If f is continuous on a closed interval [a, b] and C is any number between f(a) and f(b), inclusive, then there is at least one number x in the interval [a, b] such that ---------

Select the correct option

- f(x) is not equal to C
- f(x)>C
- f(x) = C
- f(x)<C

Click to Save Answer & Move to Next Quest

1:46 / 2:55

Mth101 quiz 1 solution,mth101 quiz 1 solution fall 2021,mth101 1st quiz solution 2021,mth101 q...

MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 05:58 PM, 19 December 2021

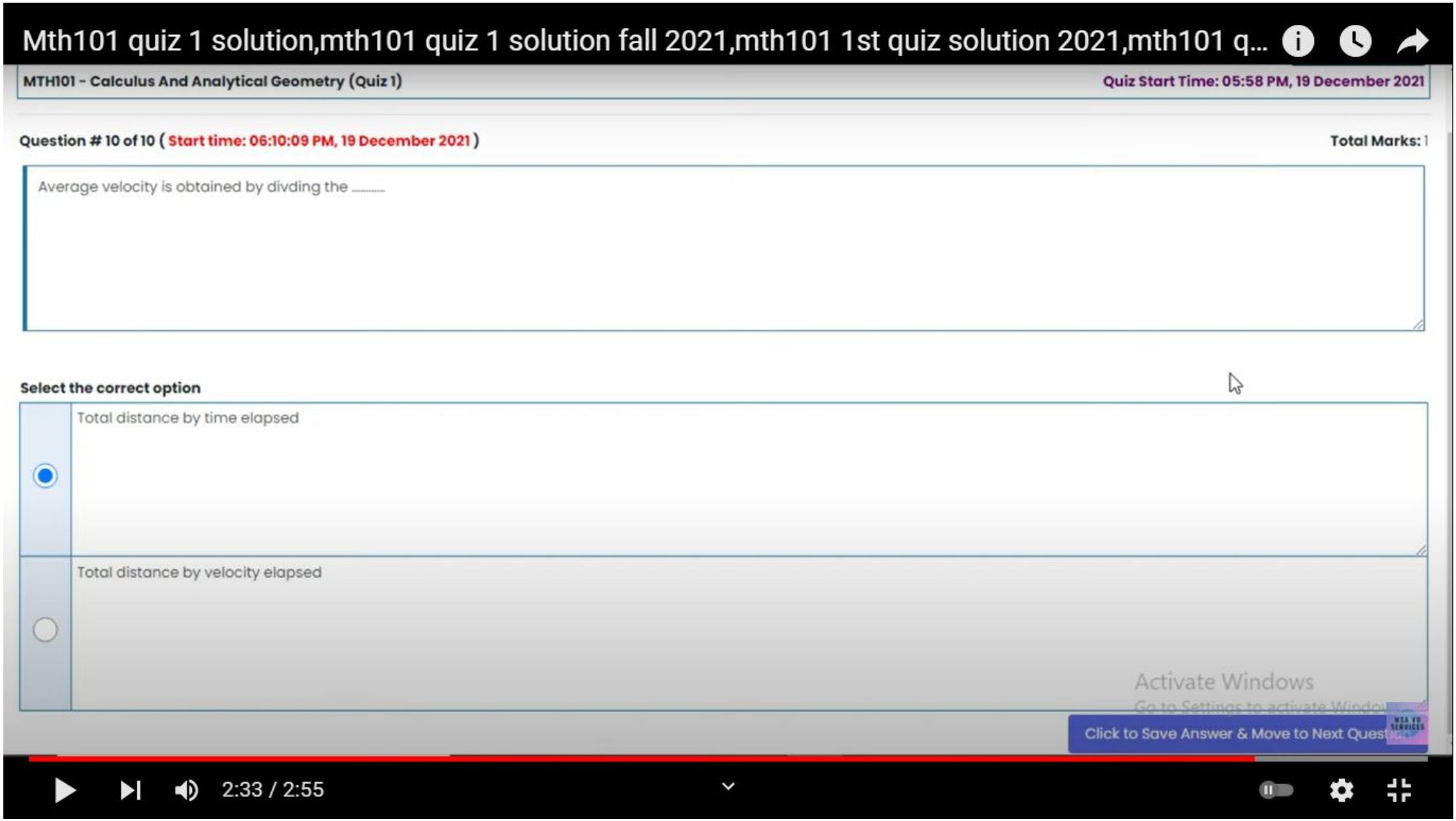
Question # 8 of 10 (Start time: 06:07:25 PM, 19 December 2021) Total Marks: 1

Velocity is the rate of change of position w.r.t .....

Select the correct option

- (●) time
- ( ) displacement
- ( ) acceleration
- ( ) force

2:08 / 2:55


Mth101 quiz 1 solution,mth101 quiz 1 solution fall 2021,mth101 1st quiz solution 2021,mth101 q...
MTH101 - Calculus And Analytical Geometry (Quiz 1)
Quiz Start Time: 05:58 PM, 19 December 2021
Question # 10 of 10 (Start time: 06:10:09 PM, 19 December 2021)
Total Marks: 1
Average velocity is obtained by divding the .....
Select the correct option
Total distance by time elapsed
Total distance by velocity elapsed
Activate Windows
Click to Save Answer & Move to Next Quest
2:33 / 2:55

MTH101 Quiz 1 Solution 2021 | MTH101 Quiz 1 Solved Fall 2021 | LIve Attempt | Set 2

MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 09:29 AM, 20 December 2021

Question # 4 of 10 (Start time: 09:32:22 AM, 20 December 2021) **Total Marks:** 1

A function f is called continuous from the left at point c if f(c) is defined and left hand limit f(x) exist and

Select the correct option

- left hand limt f(x) = right hand limit f(x)= f(c)
- right hand limit f(x)= f(c)
- None of these
- left hand limit f(x)= f(c)

Click to Save Answer & Move to Next Questi NOW

3:57 / 9:17

MTH101 Quiz 1 Solution 2021 | MTH101 Quiz 1 Solved Fall 2021 | LIve Attempt | Set 2

sec(s)

MTH101 - Calculus And Analytical Geometry (Quiz 1)

Quiz Start Time: 09:29 AM, 20 December 2021

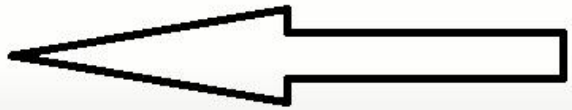
Question # 5 of 10 (Start time: 09:32:53 AM, 20 December 2021)

Total Marks: 1

Is the function f(x)= e^(lnx) continuous at x=0 ? If not, why?

Select the correct option

- f is continuous at x = 0.
- f(0) is not defined.



Click to Save Answer & Move to Next Que

MTH101 Quiz 1 Solution 2021 | MTH101 Quiz 1 Solved Fall 2021 | LIve Attempt | Set 2

sec(s)

MTH101 - Calculus And Analytical Geometry (Quiz 1)

Quiz Start Time: 09:29 AM, 20 December 2021

Question # 7 of 10 (Start time: 09:34:57 AM, 20 December 2021)

Total Marks: 1

Limit of a function f(x) exists, if (left hand limit of f(x)) $\lim_{x \to 1^-} f(x) = 5$, then (right hand limit of f(x)) $\lim_{x \to 1^+} f(x) =$ _____.

Select the correct option

Reload Math Equations

- 5
- -1
- 0
- 1

Click to Save Answer & Move to Next Question

Go to Settings to activate Windows.

6:31 / 9:17

MTH101 Quiz 1 Solution 2021 | MTH101 Quiz 1 Solved Fall 2021 | LIve Attempt | Set 2

sec(s)

MTH101 - Calculus And Analytical Geometry (Quiz 1)

Quiz Start Time: 09:29 AM, 20 December 2021

Question # 9 of 10 (Start time: 09:36:10 AM, 20 December 2021)

Total Marks: 1

$\lim_{x \to -\infty} \frac{1}{x} =$

Select the correct option

Reload Math Equations

- $+\infty$
- 1
- $-\infty$
- 0

Click to Save Answer & Move to Next Question

Go to Settings to activate Windows.

7:45 / 9:17

MTH101 Quiz 1 Solution 2021 | MTH101 Quiz 1 Solved Fall 2021 | LIve Attempt | Set 2

sec(s)

MTH101 - Calculus And Analytical Geometry (Quiz 1) **Quiz Start Time: 09:29 AM, 20 December 2021**

Question # 10 of 10 (Start time: 09:36:40 AM, 20 December 2021) **Total Marks:** 1

If(x approaches to 2) lim 3x-5=1. In this statement the limiting value of 3x-5 is .....

Select the correct option

1

2

Click to Save Answer & Move to Next Que

8:19 / 9:17

Question # 6 of 10 (Start time: 07:32:35 AM, 19 December 2021)

Total Marks:

Let R and S be reflexive relations on a set A then _____.

Select the correct option

- R intersection S is reflexive
- Neither R union S is reflexive nor R intersection S is reflexive
- R union S is reflexive
- Both R union S and R intersection S are reflexive

Question # 7 of 10 (Start time: 07:34:31 AM, 19 December 2021) **Total Marks:**

A function f is continuous at a point x = a if and only if f(a) is defined, lim f(x) as x approached to "a" exists and .....

Select the correct option

○	lim f(x)<f (a)
●	lim f(x)= f (a)
○	lim f(x) is not equal to f (a)
○	lim f(x)> f (a)

MTH101 - Calculus And Analytical Geometry (Quiz 1) Quiz Start Time: 07:26 AM, 19 December 2021

Question # 9 of 10 (Start time: 07:35:26 AM, 19 December 2021) **Total Marks:**

Is the function f(x) = tan (x) continuous at x = pi ? If not, why?

Select the correct option

- f is continuous at x = pi .
- f (pi) is not defined.

Click to Save Answer & Move to Next Question

$$\lim_{x \to 0} x^{-2} =$$

Select the correct option

- -2
- 1
- 0
- ∞

A function f is called continuous from the left at point c if f(c) is defined and left hand limit f(x) exist and

Select the correct option

- None of these
- left hand limt f(x) = right hand limit f(x)= f(c)
- right hand limit f(x)= f(c)
- left hand limit f(x)= f(c)

If (0,0) and (2,2) are any two points on a curve then the slope of a line parallel to the secant segment through these points is _____.

Select the correct option

- (●) 1
- ( ) -2
- ( ) 2
- ( ) -1

For the curve: $f(t) = -2t+3$, the instantaneous rate of change of '$f(t)$' at '$t = 1$' is _____.

https://youtu.be/1pCwkayMCXo

Select the correct option

- -1
- -2
- 1
- 2

A function is continuous on an interval if it is continuous ..... of the interval.

Select the correct option

- At the end points
- At every point
- At some points
- None of these

If y=x^2 then average rate of change of y with respect to x over the interval [1, 2] is
NOTE: x^n means 'x' to the power 'n'

Select the correct option

- ○ 1
- ○ 2
- ○ None of these
- ● 3

Average rate of change in 'y' w.r.t 'x' represents the slope of ____ line on the graph.

Select the correct option

- (●) secant
- ( ) parabola
- ( ) tangent
- ( ) circle

To find the slope of tangent line at a particular point along a curve , you have to calculate .....

elect the correct option

- ○ displacement
- ○ acceleration
- ○ instantaneous velocity
- ● average velocity

e (epsilon) used in the definition of limit can be a negative number.

Select the correct option

- False
- True

Quiz

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=446532a1-65d5-48ca-b6d3-f74c7091b10b

YouTube | Eric Weisstein's Wor... | Reading list

Question # 2 of 10 (Start time: 01:33:54 PM, 19 December 2021) **Total Marks:** 1

If a truck travels 100 miles over a straight road in a 5-hour period, then the average velocity of the truck will be

Select the correct option

- (●) 20 miles/hour
- ( ) 5 miles/hour
- ( ) 12 miles/hour
- ( ) None of these

Quiz

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=147ff91a-221a-4563-a50b-fe0fc9f300fc

YouTube Eric Weisstein's Wor... Reading list

Question # 3 of 10 (Start time: 01:34:36 PM, 19 December 2021) **Total Marks:** 1

The instantaneous velocity of any object can be represented geometrically by_____

https://youtu.be/1pCwkayMCXo

Select the correct option

- the slope of the tangent line.
- both slope of secant and tangent lines.
- the slope of the secant line.
- None of these.