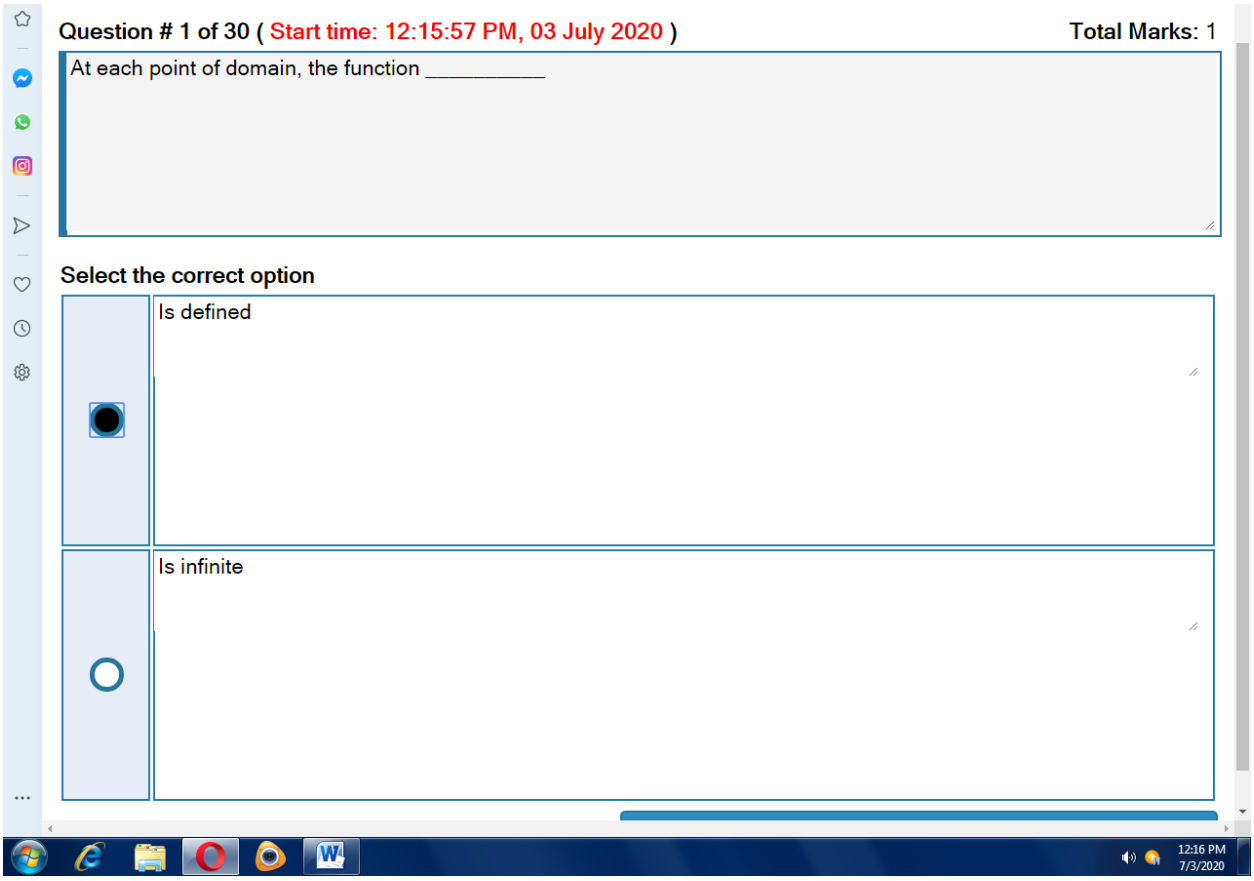
MTH101 GRAND QUIZ



Which of the following is equation of a circle centered at origin and radius 1?

Select the correct option

Reload Math Equations

- $(x^2) + (y^2) = 1$
- $(x^2) - (y^2) = 0$
- $x + y = 1$
- $(x^2) + x + 1 = 0$

Click to Save Answer & Move to Next Question

Question # 3 of 30 (Start time: 12:17:47 PM, 03 July 2020) Total Marks: 1

Which of the following describes the equation:
y = 2?

Select the correct option

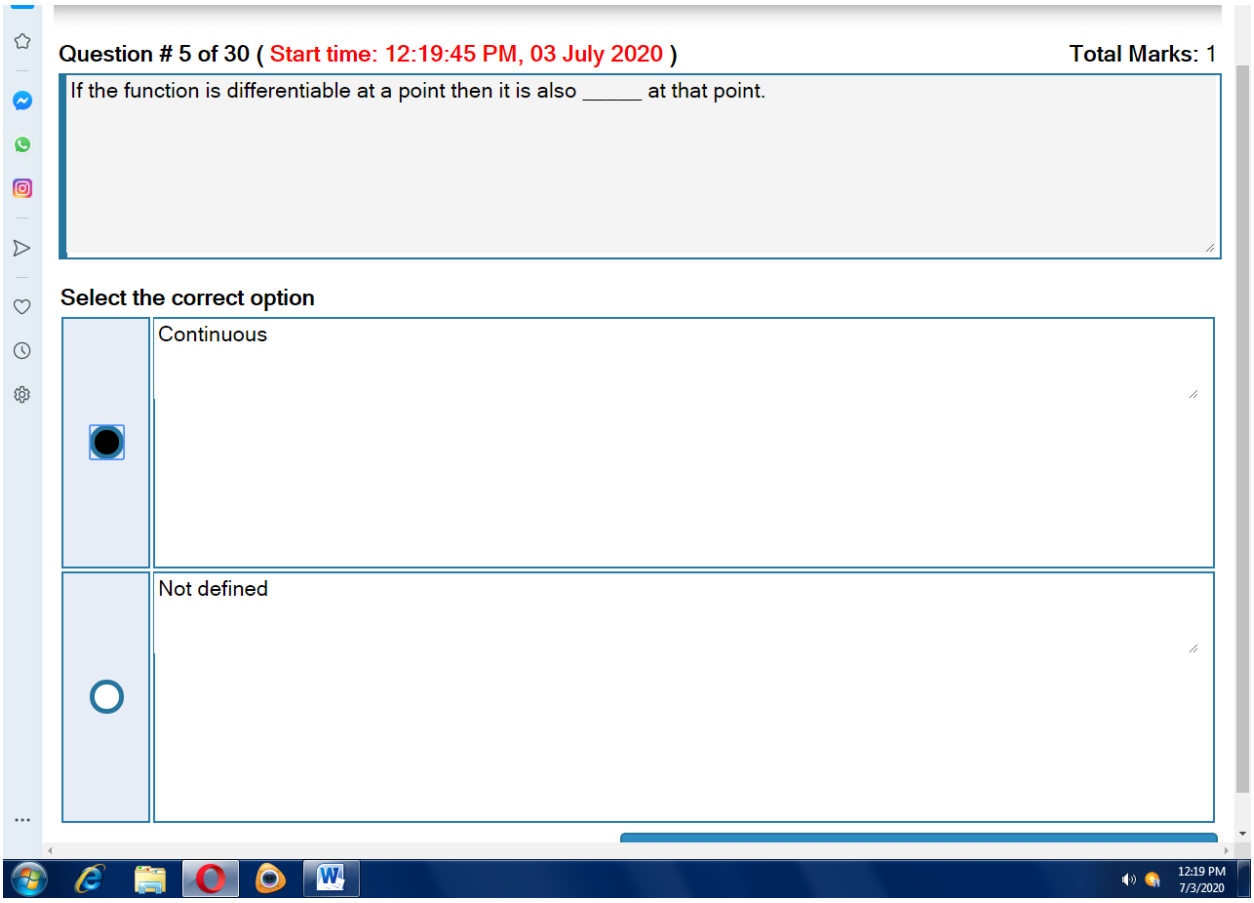
- (●) A point (0, 2)
- ( ) A point (2, 0)
- ( ) A line parallel to x-axis
- ( ) A line parallel to y-axis

Question # 4 of 30 (Start time: 12:18:42 PM, 03 July 2020) Total Marks: 1

If f (x) = x^3 + 1, then which of the following is NOT true about it.
NOTE:- where x^n denotes the nth power of x .

Select the correct option

- ○ The slope of tangent line at x = 2 is 12.
- ○ The slope of tangent line at x = -2 is 12.
- ○ The slope of tangent line at x = 1 is 3.
- ● None of these. .


Question # 5 of 30 (Start time: 12:19:45 PM, 03 July 2020)
Total Marks: 1
If the function is differentiable at a point then it is also _____ at that point.
Select the correct option
Continuous
Not defined
12:19 PM
7/3/2020

Question # 6 of 30 (Start time: 12:19:59 PM, 03 July 2020) Total Marks: 1

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

Question # 9 of 30 (Start time: 12:23:19 PM, 03 July 2020) Total Marks: 1

$$Let \ \ f(x) \ = \ \sqrt{x+1} \ \ then \ f(-2) \ = \ \_\_\_\_\_$$

Select the correct option

Reload Math Equations

○	-1
○	0
○	1
●	Not defined in R

12:23 PM
7/3/2020

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

Select the correct option

Reload Math Equations

●	$1 - x^2$
○	$1 + x^2$
○	$3 - x^2$
○	$2 - x^2$

Click to Save Answer & Move to Next Question

MTH101:GRAND QUIZ (Mid-term) Quiz Start Time: 12:15 PM, 03 July 2020

Question # 11 of 30 (Start time: 12:24:45 PM, 03 July 2020) Total Marks: 1

$$Graph\ of\ the\ equation\ x^2 + y^2 = 9\ represents\ a. \ldots\ldots\ldots\ldots\ldots$$

Select the correct option

Reload Math Equations

- (●) Circle
- ( ) Parabola
- ( ) Ellipse

12:24 PM
7/3/2020

Question # 12 of 30 (Start time: 12:25:04 PM, 03 July 2020) Total Marks: 1

If f(x)=(107)^2 then f '(2)=
NOTE: x^n means 'x' to the power 'n'

Select the correct option

- 214
- 4
- 0
- None of these

Click to Save Answer & Move to Next Question

Question # 13 of 30 (Start time: 12:26:30 PM, 03 July 2020) Total Marks: 1

$$If\ g(x) = 8\tan x - 5\cot x,\ then\ g'(x)\ is$$

Select the correct option

Reload Math Equations

●	$8sec^2x + 5cosec^2x$
○	$8sec^2x - cosec^2x$
○	$-8sec^2x + 5cosec^2x$
○	$-8sec^2x - cosec^2x$

Question # 14 of 30 (Start time: 12:27:25 PM, 03 July 2020) Total Marks: 1

Graph of f(x+c) will be the same as the graph of f(x) by shifting f(x) on ..... by c units

Select the correct option

- Right side
- left side

Click to Save Answer & Move to Next Question

MTH101:GRAND QUIZ (Mid-term) Quiz Start Time: 12:15 PM, 03 July 2020

Question # 15 of 30 (Start time: 12:28:02 PM, 03 July 2020) **Total Marks: 1**

The inequality,
{(5x + 1) / x} < 1
can be simplified to which of the following?

Select the correct option

- (4x + 1) < 0
- (4x + 1) > 0
- (4x + 1) / x < 0
- (4x + 1) / x > 0

MTH101:GRAND QUIZ (Mid-term) Quiz Start Time: 12:15 PM, 03 July 2020

Question # 16 of 30 (Start time: 12:29:19 PM, 03 July 2020) **Total Marks: 1**

If slope of a line is undefined then that line is _____

Select the correct option

- parallel to x-axis
- parallel to y-axis

MTH101:GRAND QUIZ (Mid-term) Quiz Start Time: 12:15 PM, 03 July 2020

Question # 17 of 30 (Start time: 12:30:46 PM, 03 July 2020) Total Marks: 1

If $f(x) = x$ and $g(x) = x^2$. Then $(fog)\,x$ is

Select the correct option

Reload Math Equations

- (●) x^2
- ( ) x^3
- ( ) $x + x^2$

12:31 PM
7/3/2020

Question # 18 of 30 (Start time: 12:32:03 PM, 03 July 2020) **Total Marks: 1**

What is the derivative of 3sec(x)

Select the correct option

Reload Math Equations

- (●) $3Sec(x)\tan(x)$
- ( ) $sec^2(x)$
- ( ) $3\ln(\sec(x)+\tan(x))$
- ( ) None of these

12:32 PM 7/3/2020

Question # 20 of 30 (Start time: 12:33:55 PM, 03 July 2020) **Total Marks: 1**

Value of the derivative of g(x)=8-10Cosx at
'x = 0' is-------.

Select the correct option

- (●) 0
- ( ) -10
- ( ) -8
- ( ) 10

Windows Explorer

12:34 PM 7/3/2020

Question # 21 of 30 (Start time: 12:35:09 PM, 03 July 2020) Total Marks: 1

$Which\ of\ the\ following\ is\ y-\text{int}\ ercept\ of\ a\ parabola\ represented\ by\ the\ equation\ : y=x^2+2x-3$

Select the correct option

Reload Math Equations

- 0
- -3
- 1 and 2
- 1 and -3

Click to Save Answer & Move to Next Question

12:36 PM
7/3/2020

Question # 22 of 30 (Start time: 12:36:09 PM, 03 July 2020) Total Marks: 1

$$If\ f(x) = sinx\ and\ g(x) = x^2,\ then\ the\ derivative\ of\ \frac{f(x)}{g(x)}\ is$$

Select the correct option

Reload Math Equations

- $[x^2cos(x) - 2xsin(x)]/x^4$
- $[x^2cos(x) + 2xsin(x)]/x^4$
- $[x^2cos(x) - 2xsin(x)]/x^2$
- None of these.

Click to Save Answer & Move to Next Question

12:37 PM
7/3/2020

Question # 23 of 30 (Start time: 12:37:07 PM, 03 July 2020) Total Marks: 1

What is the derivative of $(3x^2 + 1)^{52}$?

Select the correct option

Reload Math Equations

- (●) $52(3x^2 + 1)^{51}$
- ( ) $312x(3x^2 + 1)^{51}$
- ( ) $(6x)^{52}$
- ( ) *None of these*

Click to Save Answer & Move to Next Question

12:37 PM
7/3/2020

Question # 24 of 30 (Start time: 12:37:24 PM, 03 July 2020) Total Marks: 1

$$\log_{10} 1 = \_\_\_\_\_.$$

Select the correct option

Reload Math Equations

- 1
- - 1
- 0
- Undefined

Click to Save Answer & Move to Next Question

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7/3/2020

MTH101:GRAND QUIZ (Mid-term)

Quiz Start Time: 12:15 PM, 03 July 2020

Question # 25 of 30 (Start time: 12:37:39 PM, 03 July 2020)

Total Marks: 1

The derivative of (x+1)^1/2 is .....

Select the correct option

- 1/2{(x+1)^-1/2}
- 1/3{(x+1)^1/2}
- x+1
- 1/2x

Click to Save Answer & Move to Next Question

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7/3/2020

Question # 26 of 30 (Start time: 12:38:05 PM, 03 July 2020) Total Marks: 1

$Let\ f(x) = x + 5\ and\ g(x) = x^2 - 3\ then\ (f + g)(x) = ?$

Select the correct option

Reload Math Equations

- $x^2 + x - 2$
- $x^2 + x + 2$
- $x^2 - x + 2$
- $x^2 - x - 2$

Saving...

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7/3/2020

Question # 27 of 30 (Start time: 12:38:32 PM, 03 July 2020) Total Marks: 1

Is the graph of equation
$y = 4x + 3$
symmetric about origin?

Select the correct option

- Yes
- No

Click to Save Answer & Move to Next Question

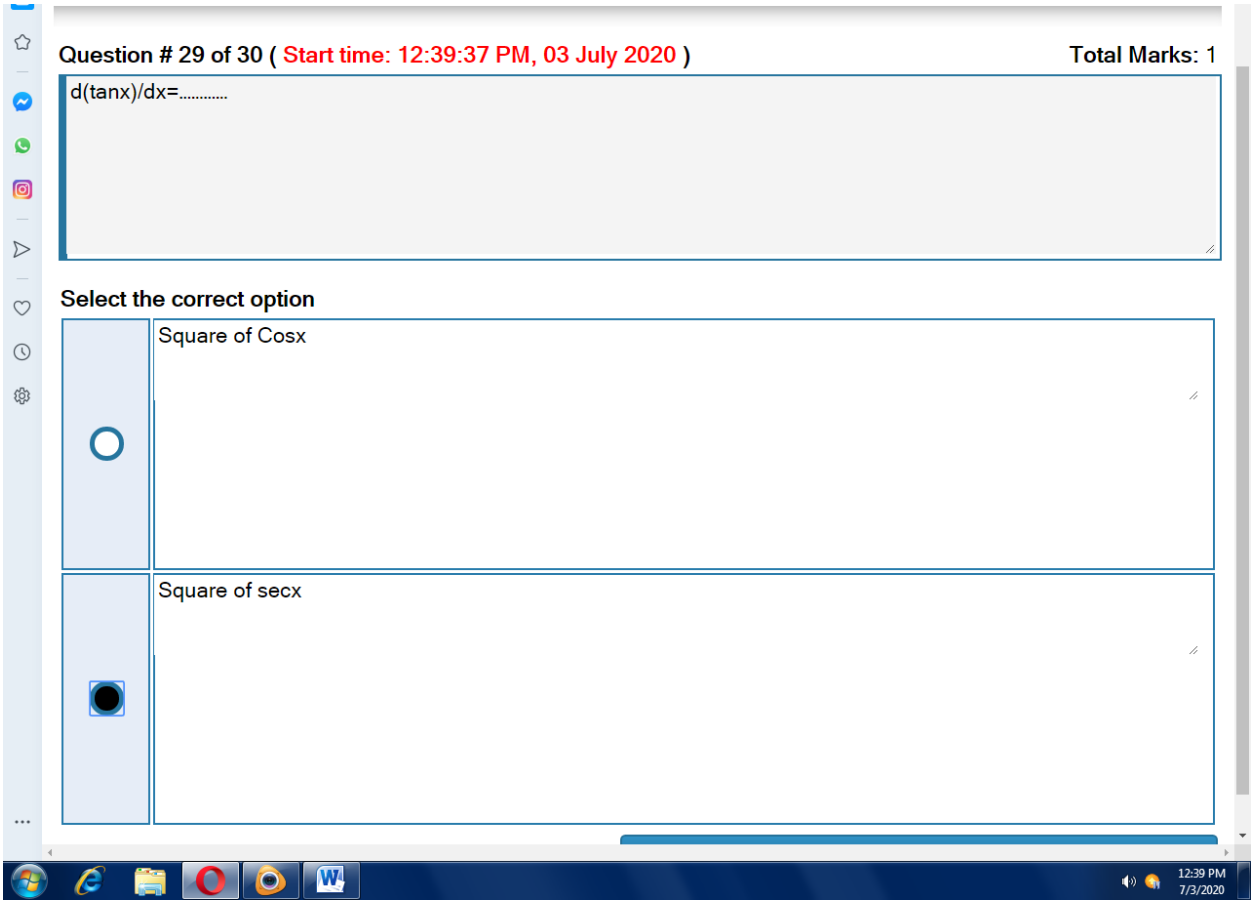
12:38 PM
7/3/2020

Question # 28 of 30 (Start time: 12:38:55 PM, 03 July 2020) Total Marks: 1

If y=x+1 , then average rate of change of 'y' w.r.t 'x' over the interval [1.5,2.5] will be.....

Select the correct option

- (●) 1
- ( ) 2
- ( ) 3
- ( ) 4


Question # 29 of 30 (Start time: 12:39:37 PM, 03 July 2020)
Total Marks: 1
d(tanx)/dx=.....
Select the correct option
Square of Cosx
Square of secx
12:39 PM
7/3/2020

Question # 30 of 30 (Start time: 12:40:11 PM, 03 July 2020) Total Marks: 1

$$Let\ f(x) = x + 5\ \ and\ g(x) = x^2 - 3\ \ then\ \ (f - g)(x) = ?$$

Select the correct option

Reload Math Equations

●	$-x^2 + x + 8$
○	$-x^2 - x + 8$
○	$-x^2 + x - 8$
○	$-x^2 - x - 8$

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7/3/2020

Question # 30 of 30 (Start time: 12:40:11 PM, 03 July 2020) Total Marks: 1

$$Let\ f(x) = x + 5\ \ and\ g(x) = x^2 - 3\ \ then\ \ (f - g)(x) = ?$$

Select the correct option

Reload Math Equations

- $-x^2 + x + 8$
- $-x^2 - x + 8$
- $-x^2 + x - 8$
- $-x^2 - x - 8$

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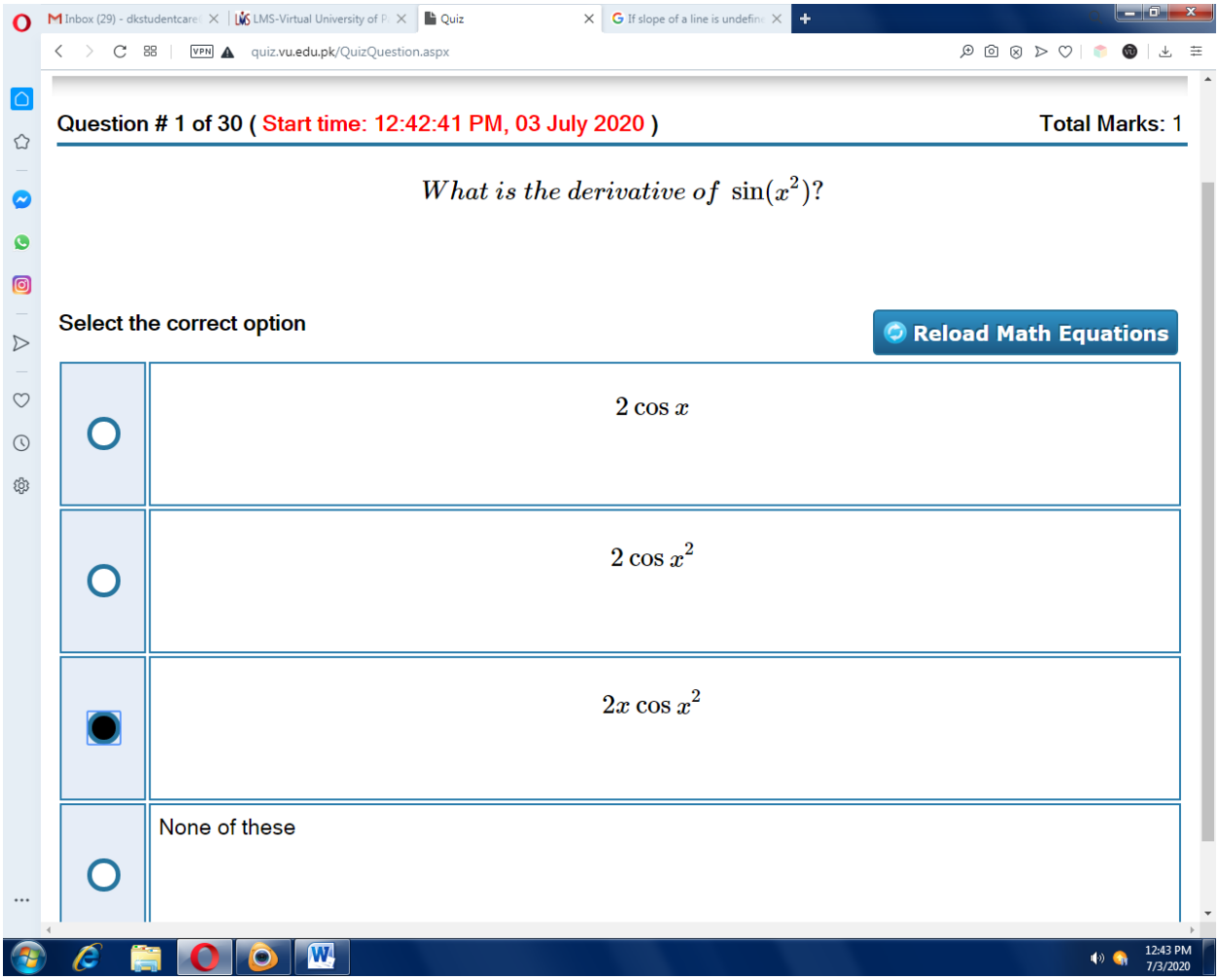
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Quiz
If slope of a line is undefin
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Question # 1 of 30 (Start time: 12:42:41 PM, 03 July 2020)
Total Marks: 1
What is the derivative of $\sin(x^2)$?
Select the correct option
Reload Math Equations
$2\cos x$
$2\cos x^2$
$2x\cos x^2$
None of these
12:43 PM
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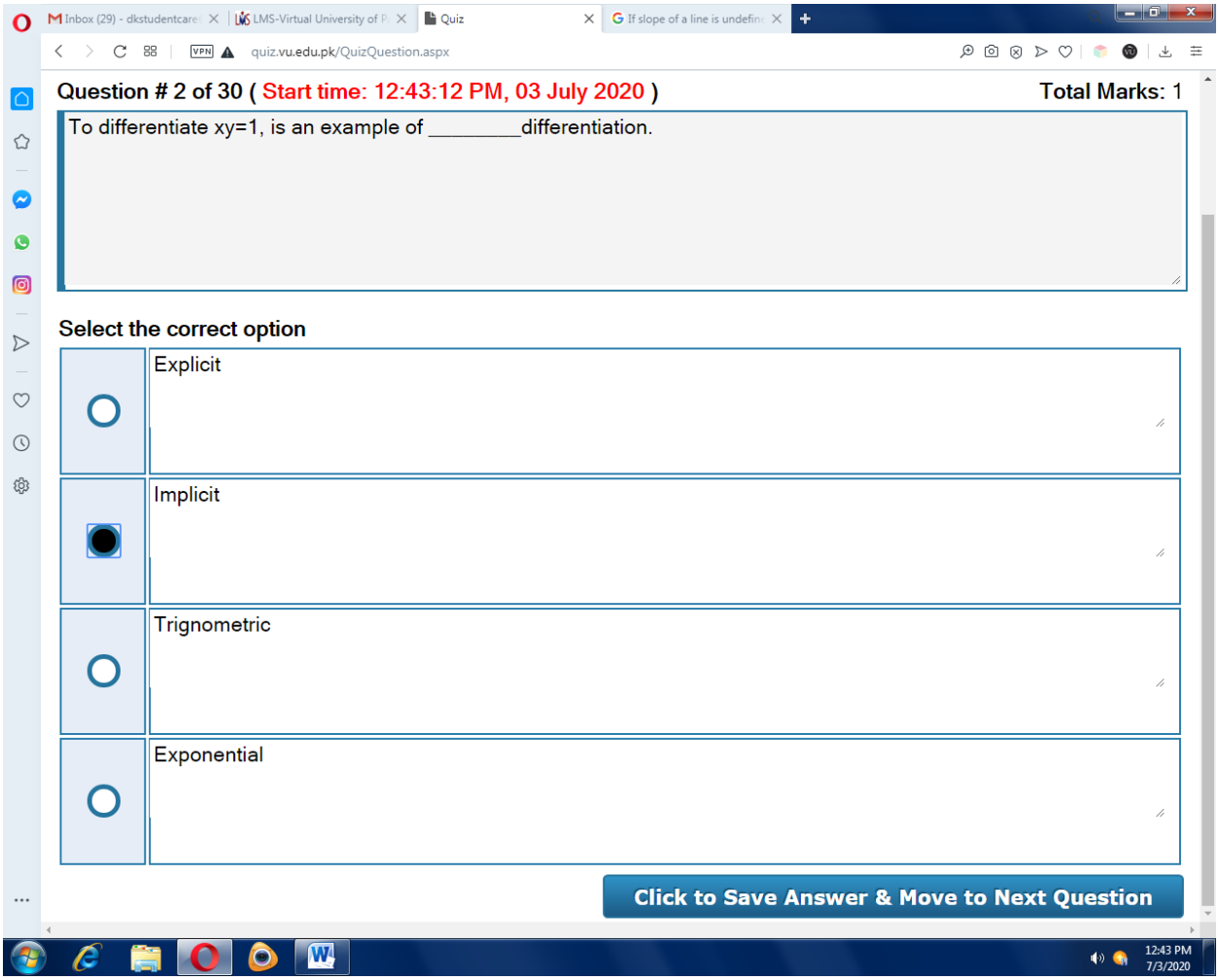
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Question # 2 of 30 (Start time: 12:43:12 PM, 03 July 2020)
Total Marks: 1
To differentiate xy=1, is an example of _____differentiation.
Select the correct option
Explicit
Implicit
Trignometric
Exponential
Click to Save Answer & Move to Next Question
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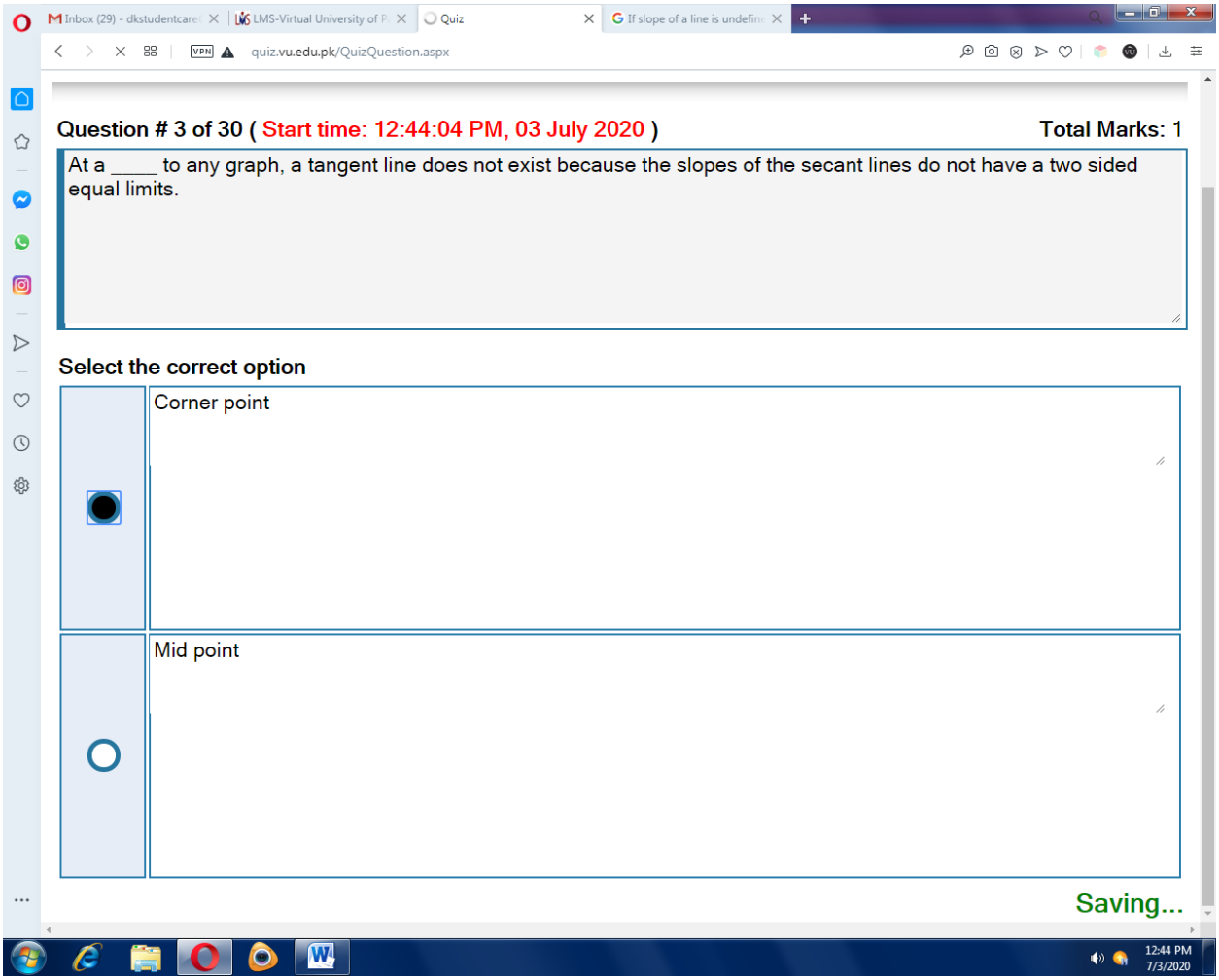
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Question # 3 of 30 (Start time: 12:44:04 PM, 03 July 2020)
Total Marks: 1
At a _____ to any graph, a tangent line does not exist because the slopes of the secant lines do not have a two sided equal limits.
Select the correct option
Corner point
Mid point
Saving...
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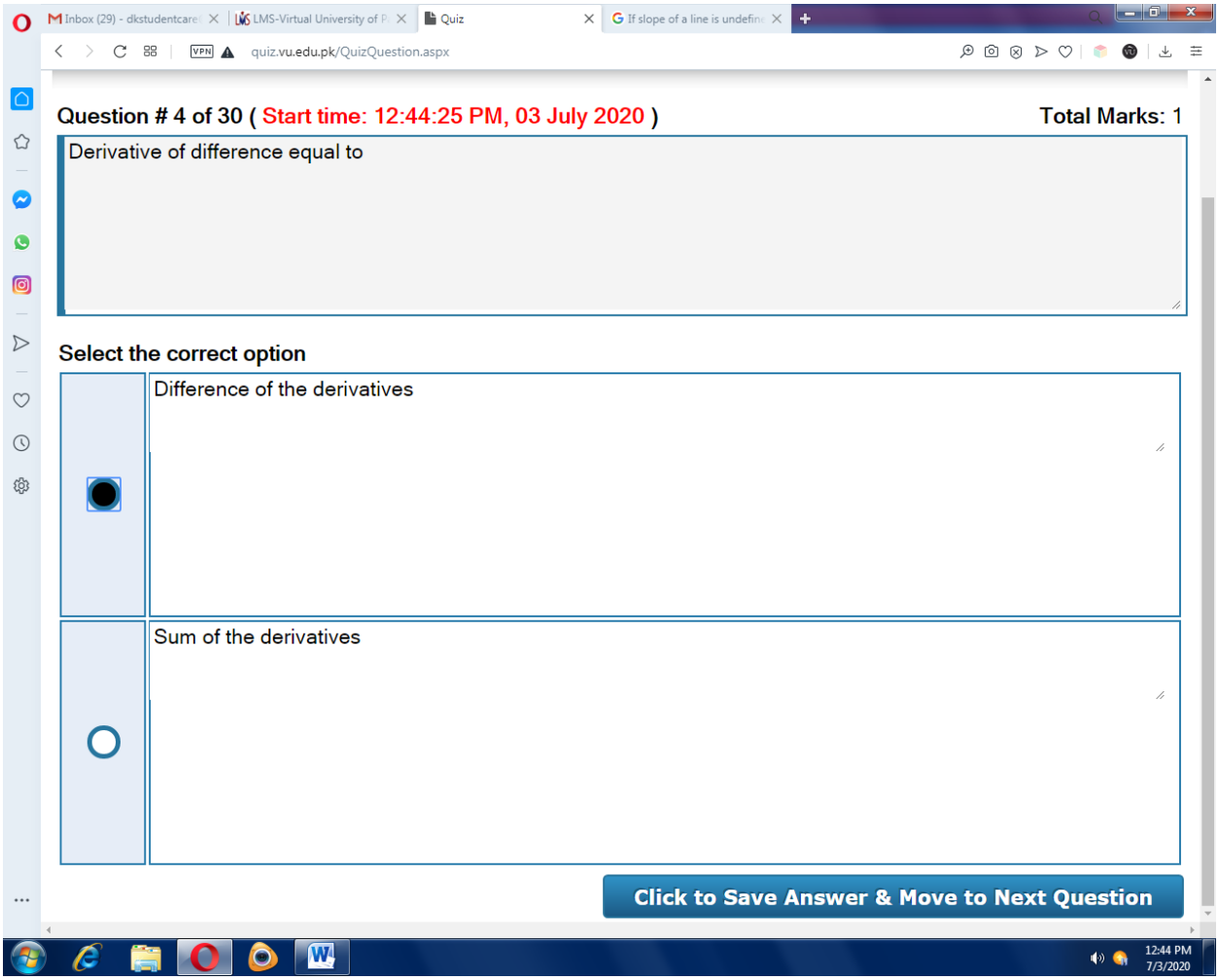
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Question # 4 of 30 (Start time: 12:44:25 PM, 03 July 2020)
Total Marks: 1
Derivative of difference equal to
Select the correct option
Difference of the derivatives
Sum of the derivatives
Click to Save Answer & Move to Next Question
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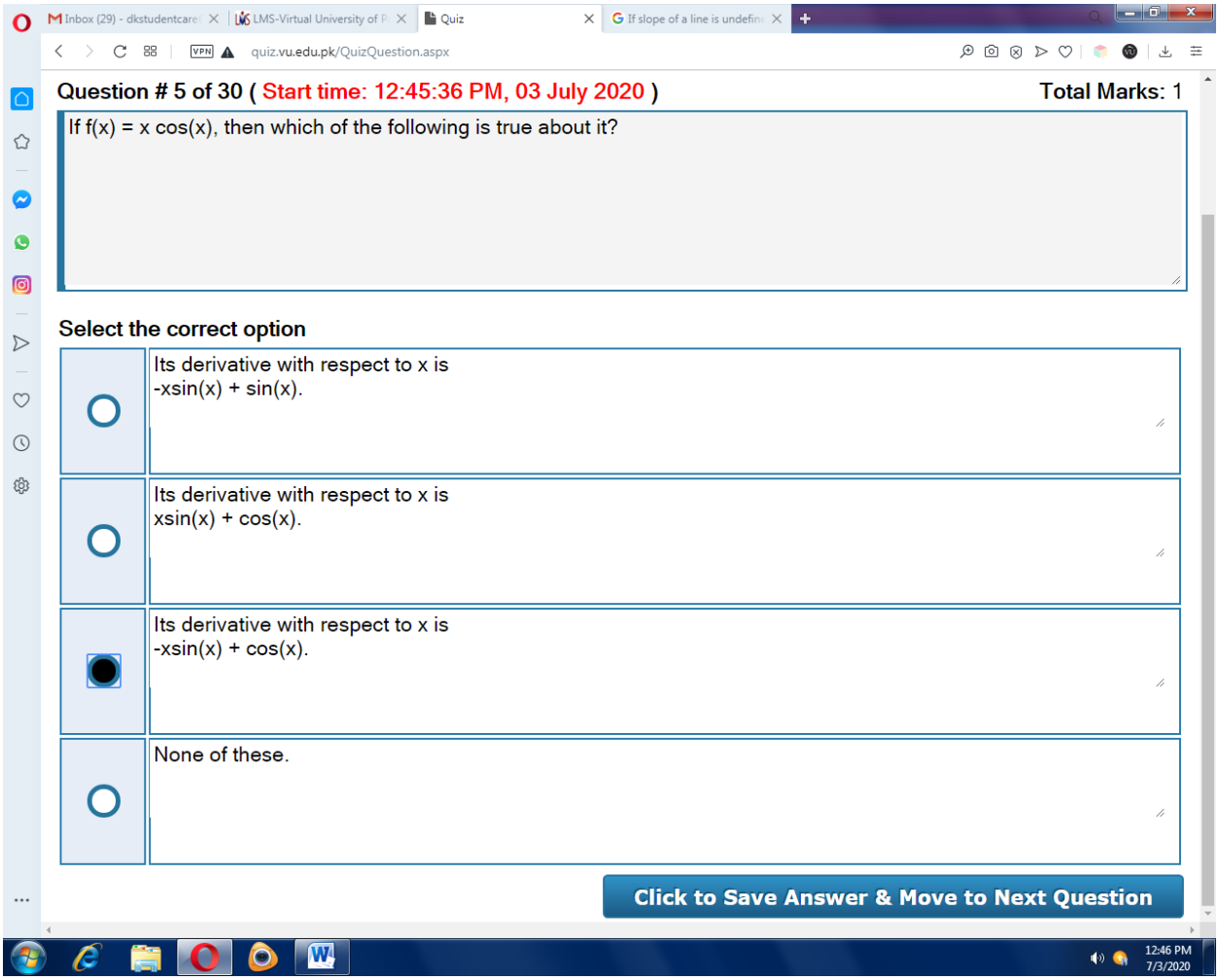
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Question # 5 of 30 (Start time: 12:45:36 PM, 03 July 2020)
Total Marks: 1
If f(x) = x cos(x), then which of the following is true about it?
Select the correct option
Its derivative with respect to x is -xsin(x) + sin(x).
Its derivative with respect to x is xsin(x) + cos(x).
Its derivative with respect to x is -xsin(x) + cos(x).
None of these.
Click to Save Answer & Move to Next Question
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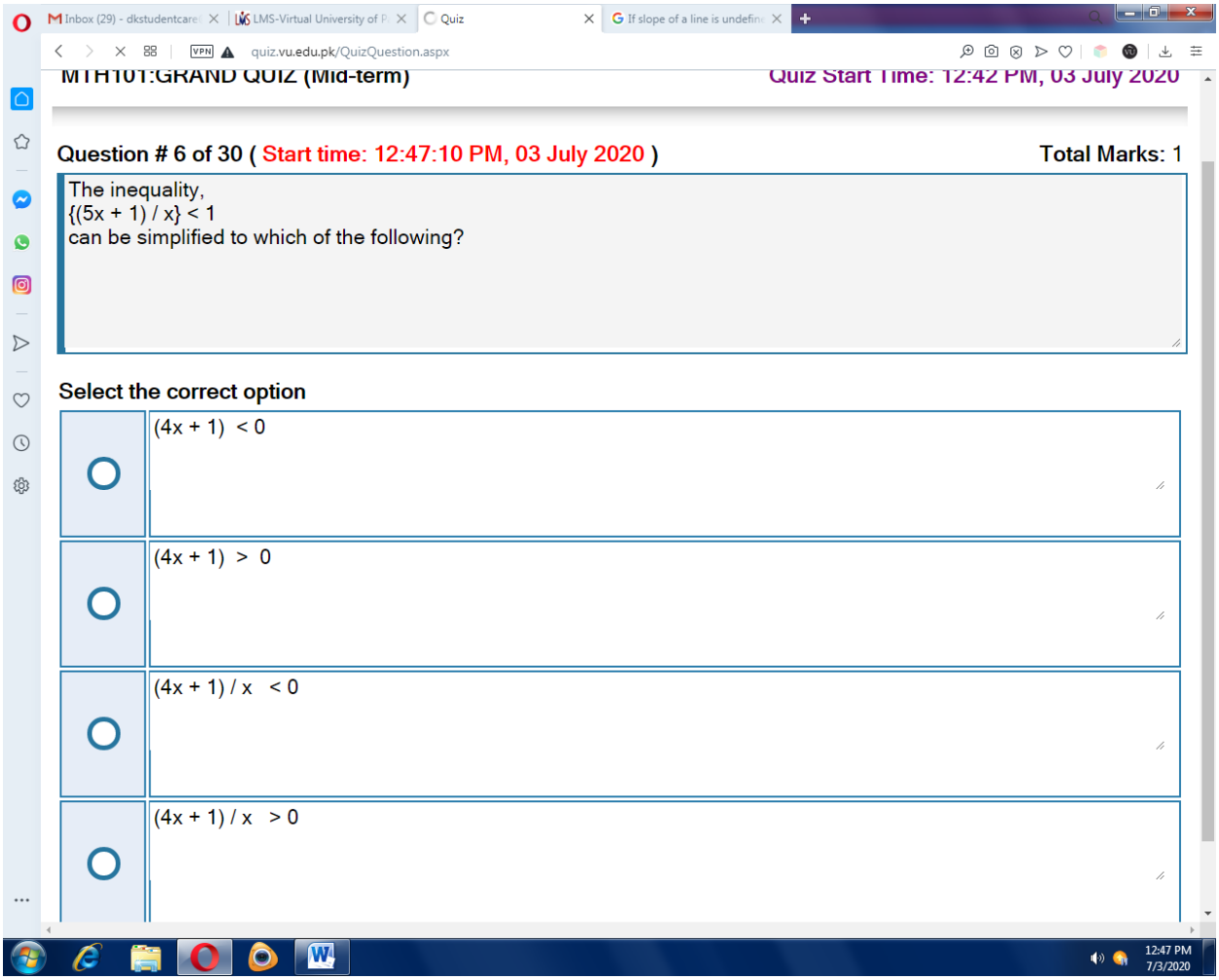
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MTH101:GRAND QUIZ (Mid-term)
Quiz Start Time: 12:42 PM, 03 July 2020
Question # 6 of 30 (Start time: 12:47:10 PM, 03 July 2020)
Total Marks: 1
The inequality,
{(5x + 1) / x} < 1
can be simplified to which of the following?
Select the correct option
(4x + 1) < 0
(4x + 1) > 0
(4x + 1) / x < 0
(4x + 1) / x > 0
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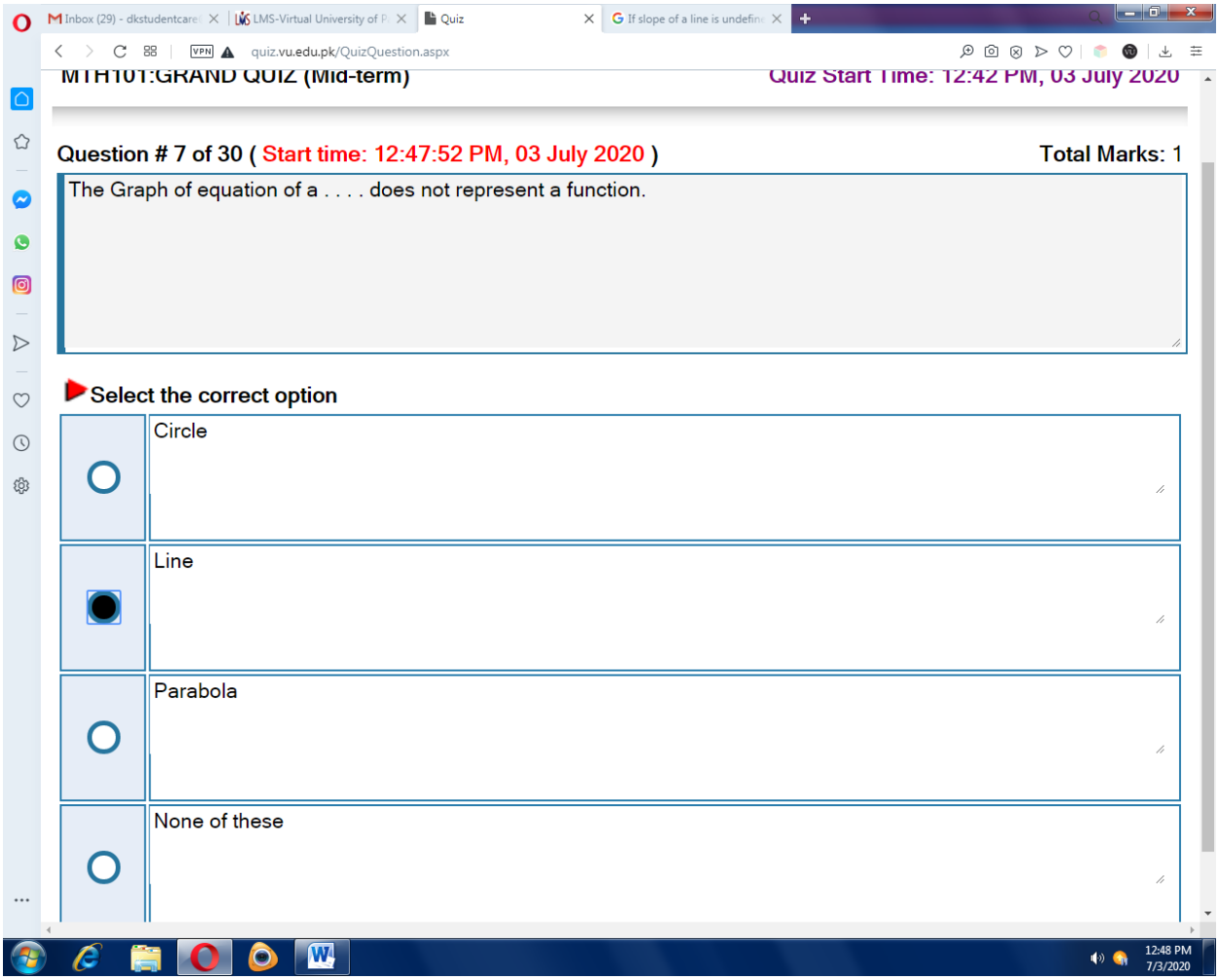
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MTH101:GRAND QUIZ (Mid-term)
Quiz Start Time: 12:42 PM, 03 July 2020
Question # 7 of 30 (Start time: 12:47:52 PM, 03 July 2020)
Total Marks: 1
The Graph of equation of a . . . . does not represent a function.
Select the correct option
Circle
Line
Parabola
None of these
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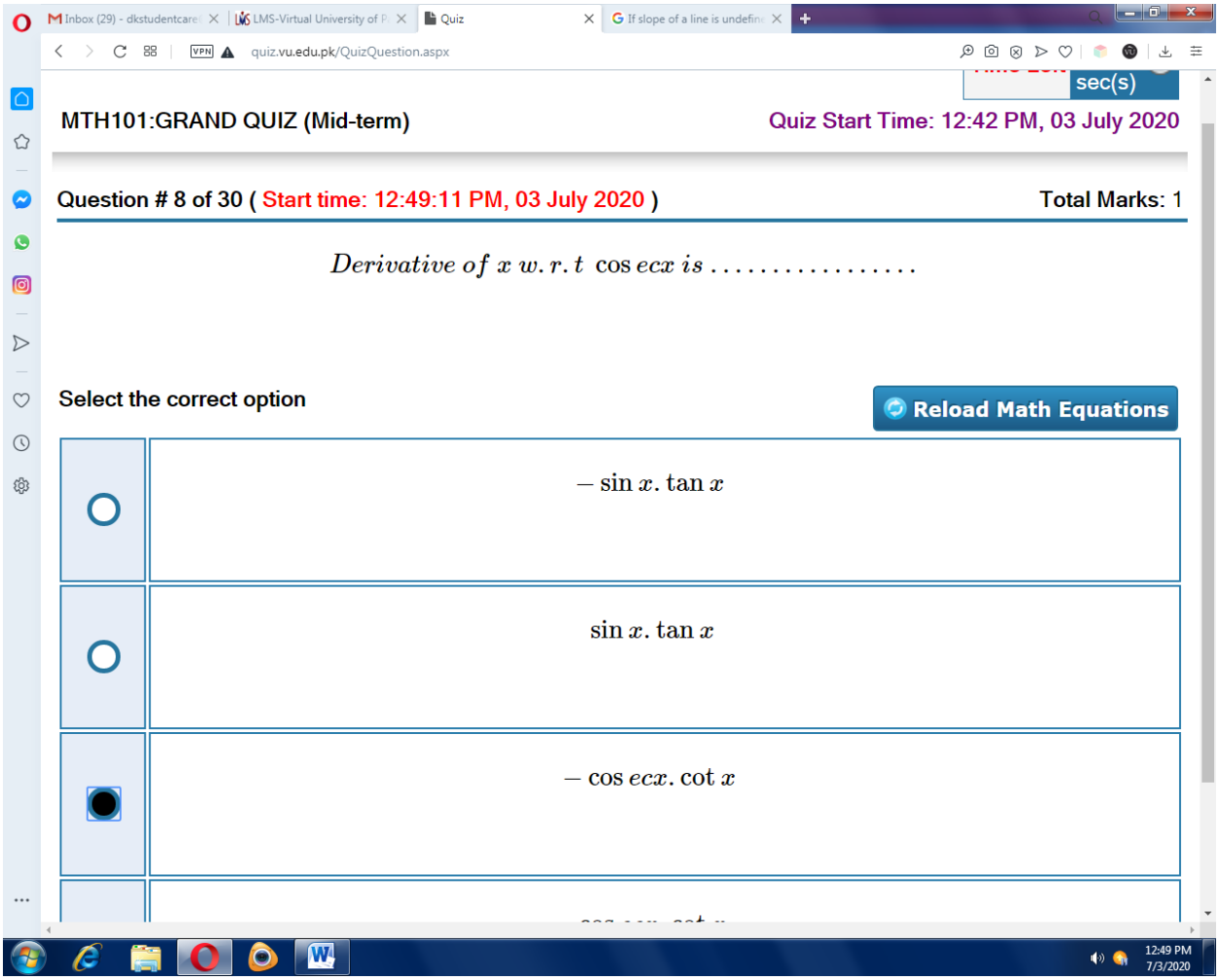
7/3/2020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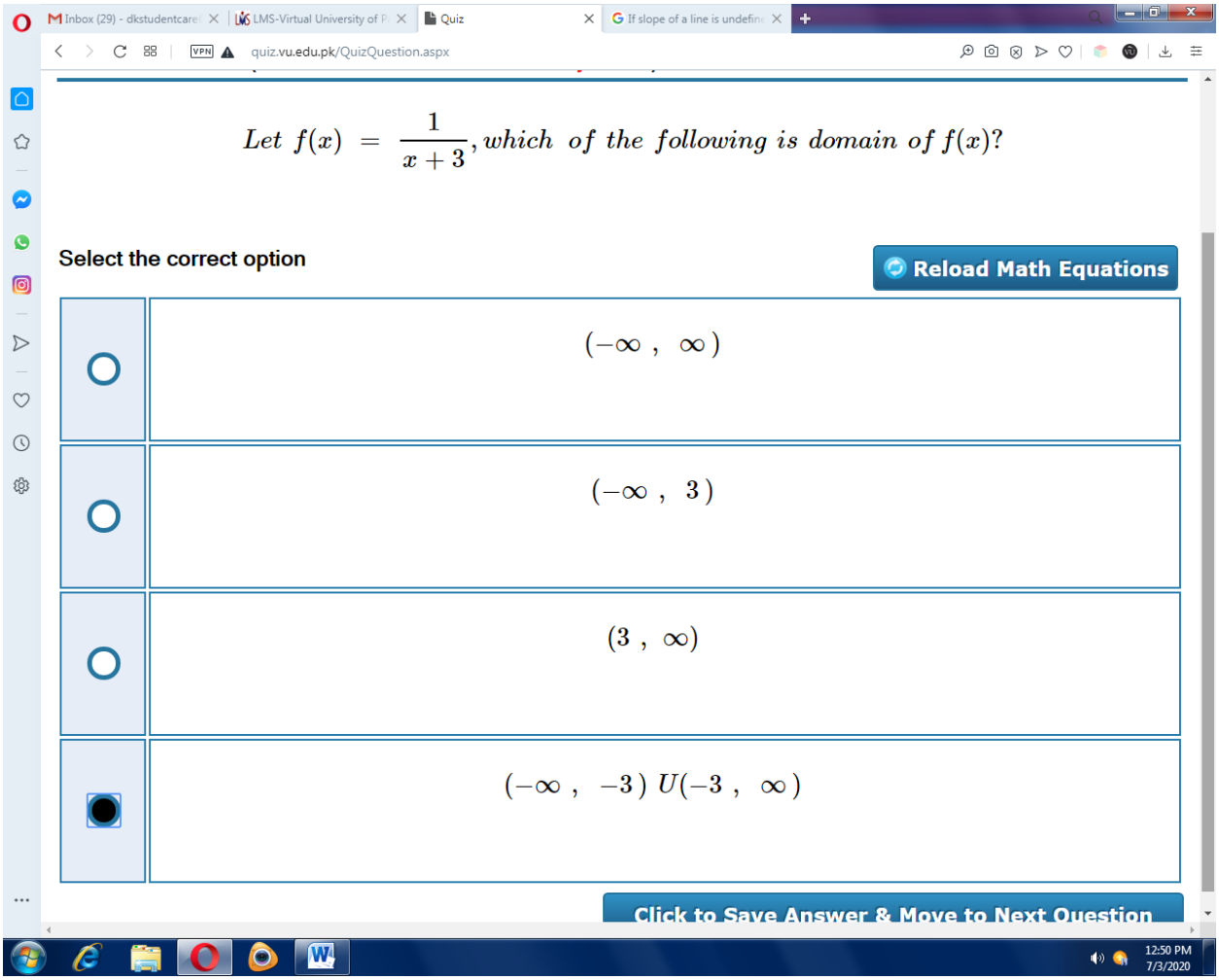
sec(s)
MTH101:GRAND QUIZ (Mid-term)
Quiz Start Time: 12:42 PM, 03 July 2020
Question # 8 of 30 (Start time: 12:49:11 PM, 03 July 2020)
Total Marks: 1
Derivative of x w.r.t cos ecx is . . . . . .
Select the correct option
Reload Math Equations
− sin x. tan x
sin x. tan x
− cos ecx. cot x
12:49 PM
7/3/2020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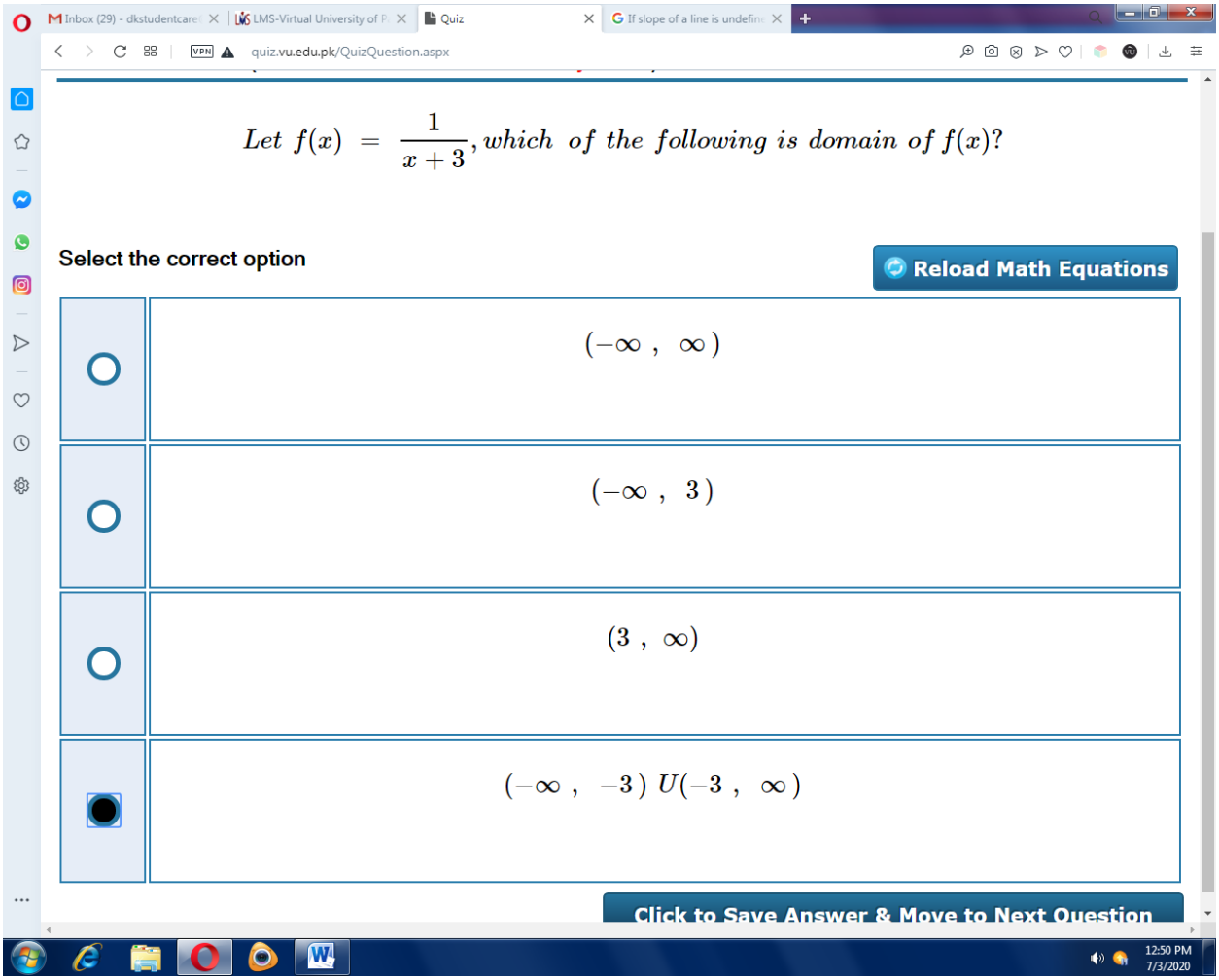
Quiz
If slope of a line is undefin
quiz.vu.edu.pk/QuizQuestion.aspx
Let $f(x) = \frac{1}{x+3}$, which of the following is domain of $f(x)$?
Select the correct option
Reload Math Equations
$(-\infty , \infty)$
$(-\infty , 3)$
$(3 , \infty)$
$(-\infty , -3) U(-3 , \infty)$
Click to Save Answer & Move to Next Question
12:50 PM
7/3/2020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Quiz
If slope of a line is undefin
quiz.vu.edu.pk/QuizQuestion.aspx
Let $f(x) = \frac{1}{x+3}$, which of the following is domain of $f(x)$?
Select the correct option
Reload Math Equations
$(-\infty , \infty)$
$(-\infty , 3)$
$(3 , \infty)$
$(-\infty , -3) U(-3 , \infty)$
Click to Save Answer & Move to Next Question
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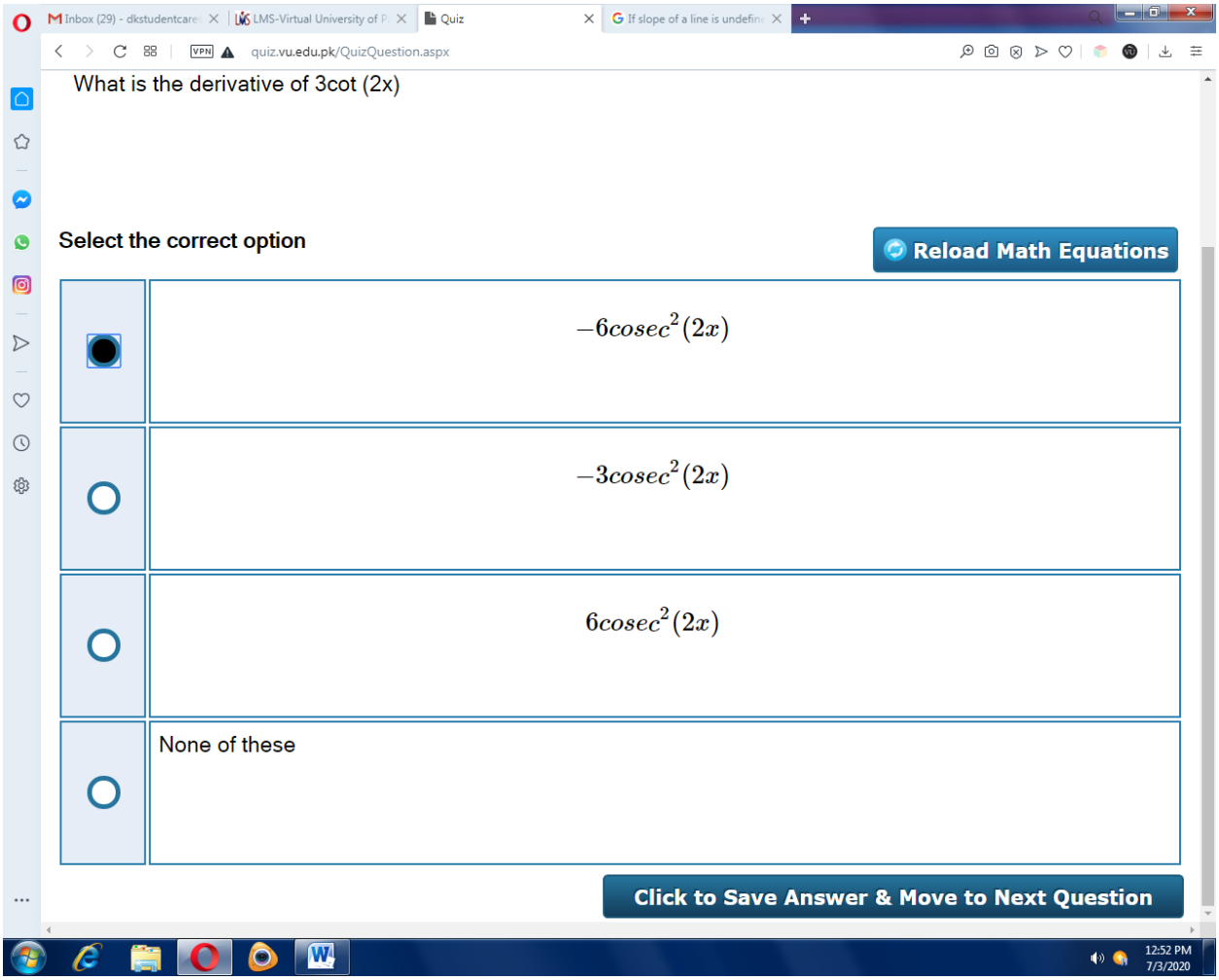
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Quiz
If slope of a line is undefin
quiz.vu.edu.pk/QuizQuestion.aspx
What is the derivative of 3cot (2x)
Select the correct option
Reload Math Equations
$-6cosec^2(2x)$
$-3cosec^2(2x)$
$6cosec^2(2x)$
None of these
Click to Save Answer & Move to Next Question
12:52 PM
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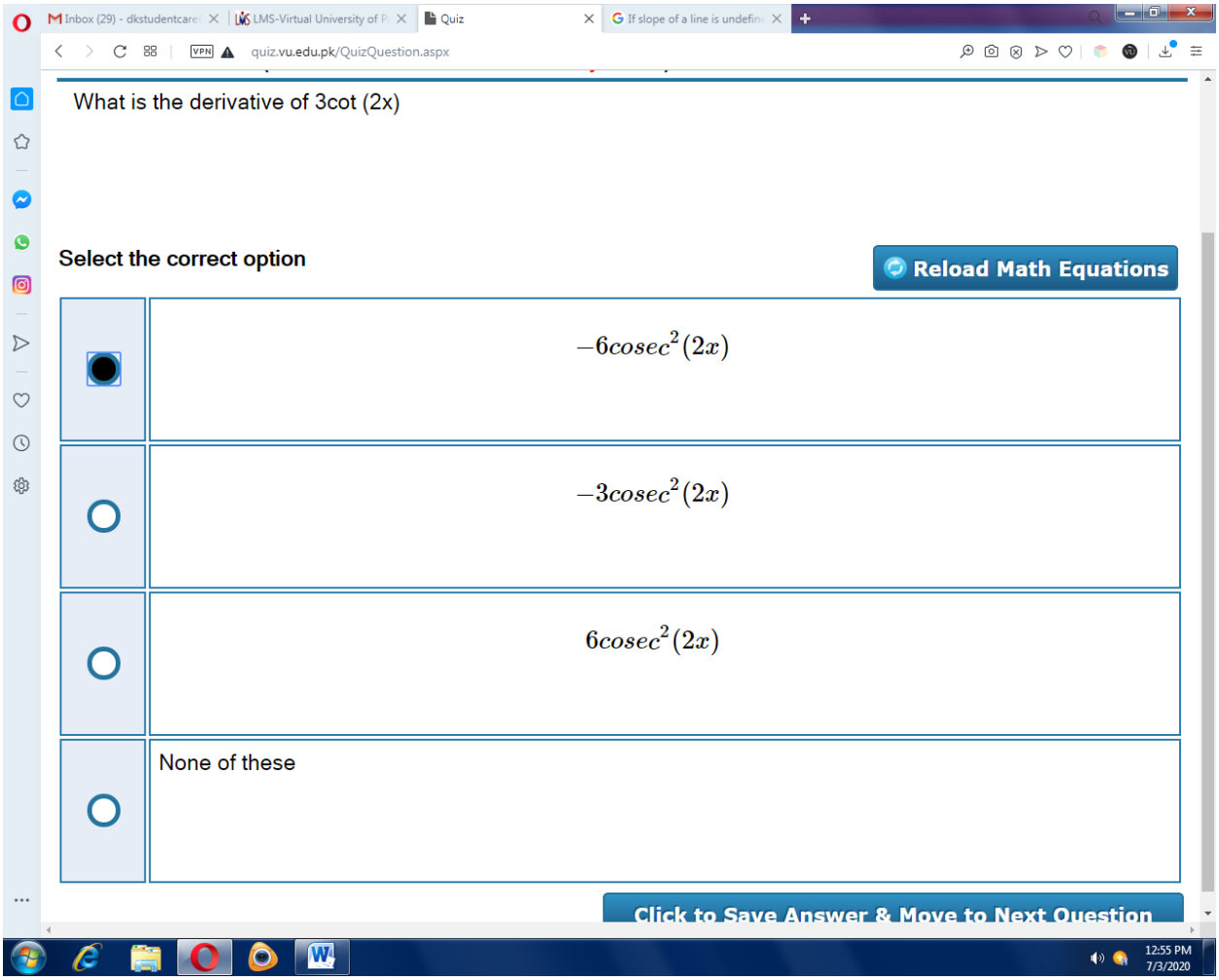
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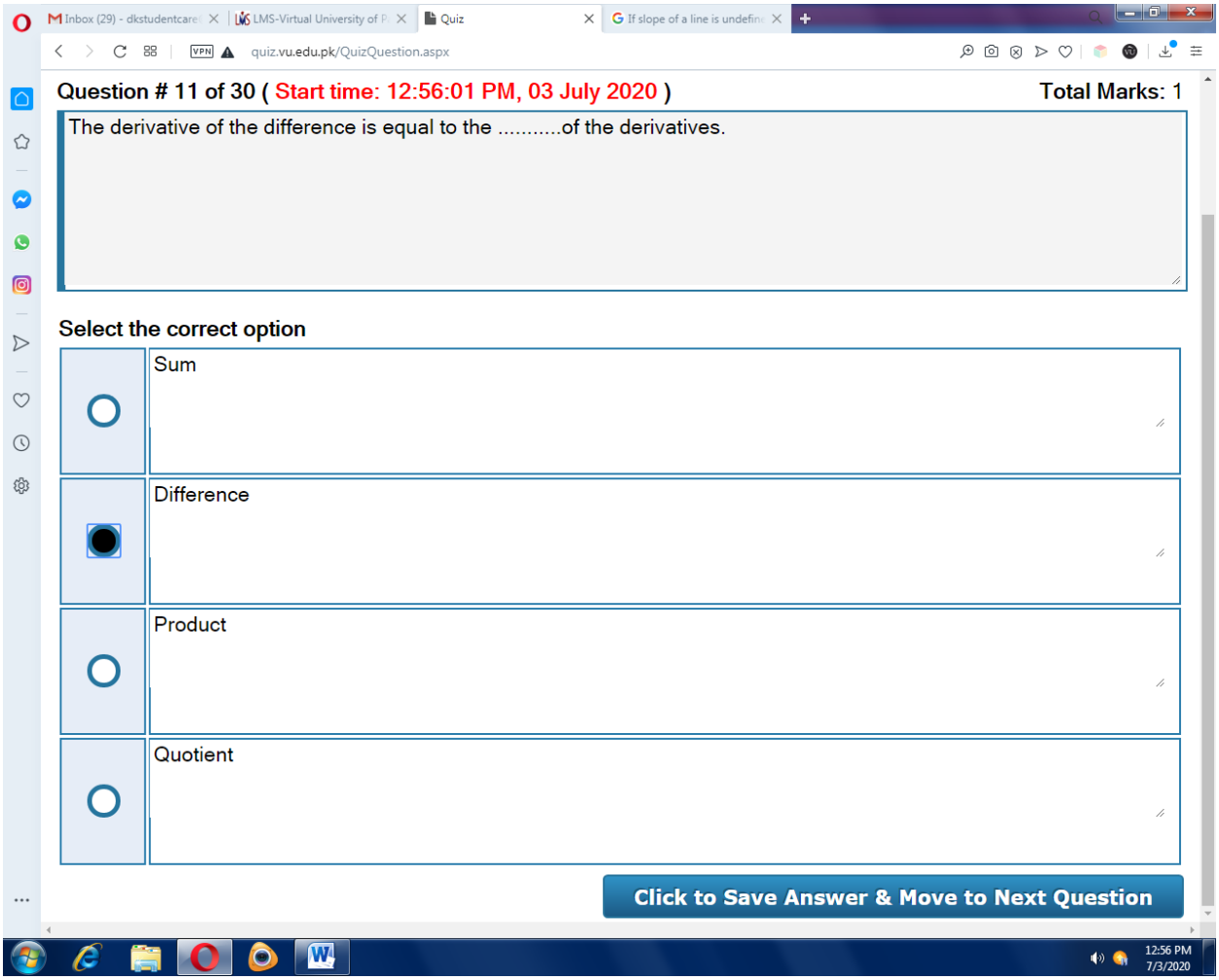
Quiz
If slope of a line is undefin
quiz.vu.edu.pk/QuizQuestion.aspx
What is the derivative of 3cot (2x)
Select the correct option
Reload Math Equations
$-6cosec^2(2x)$
$-3cosec^2(2x)$
$6cosec^2(2x)$
None of these
Click to Save Answer & Move to Next Question
12:55 PM
7/3/2020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Quiz
If slope of a line is undefin
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 11 of 30 (Start time: 12:56:01 PM, 03 July 2020)
Total Marks: 1
The derivative of the difference is equal to the .....of the derivatives.
Select the correct option
Sum
Difference
Product
Quotient
Click to Save Answer & Move to Next Question
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7/3/2020

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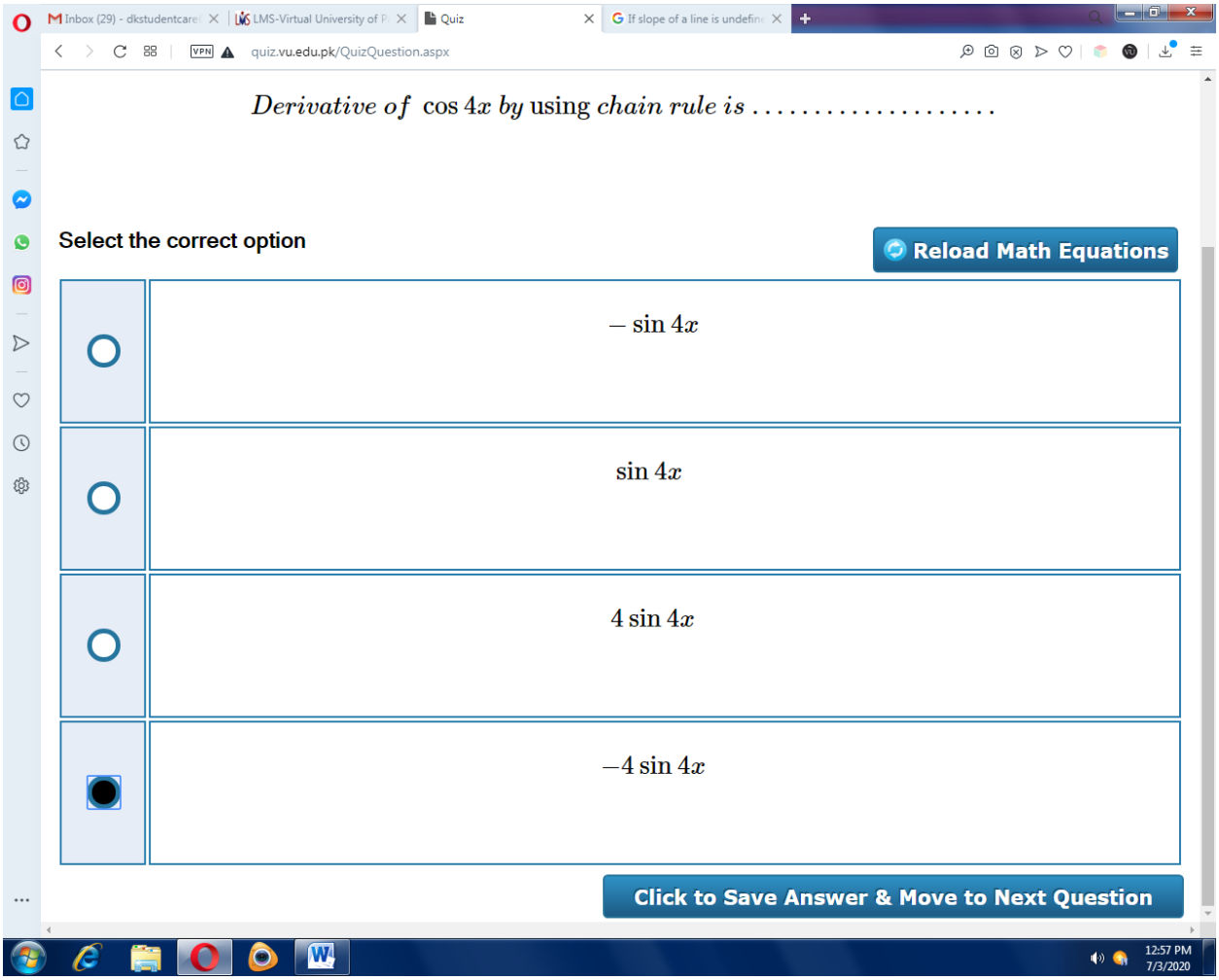
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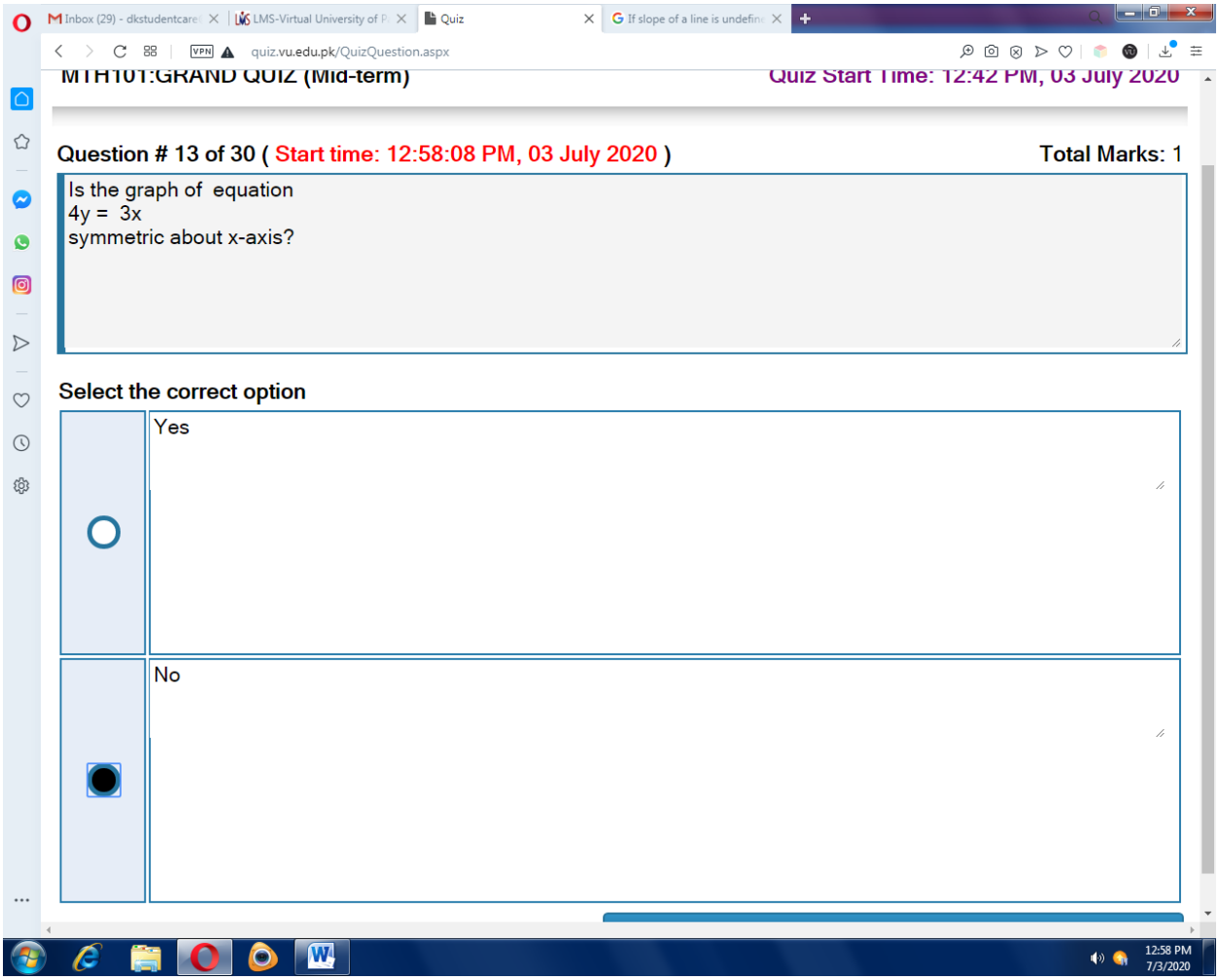
Quiz
If slope of a line is undefin
quiz.vu.edu.pk/QuizQuestion.aspx
Derivative of cos 4x by using chain rule is .....
Select the correct option
Reload Math Equations
− sin 4x
sin 4x
4 sin 4x
−4 sin 4x
Click to Save Answer & Move to Next Question
12:57 PM
7/3/2020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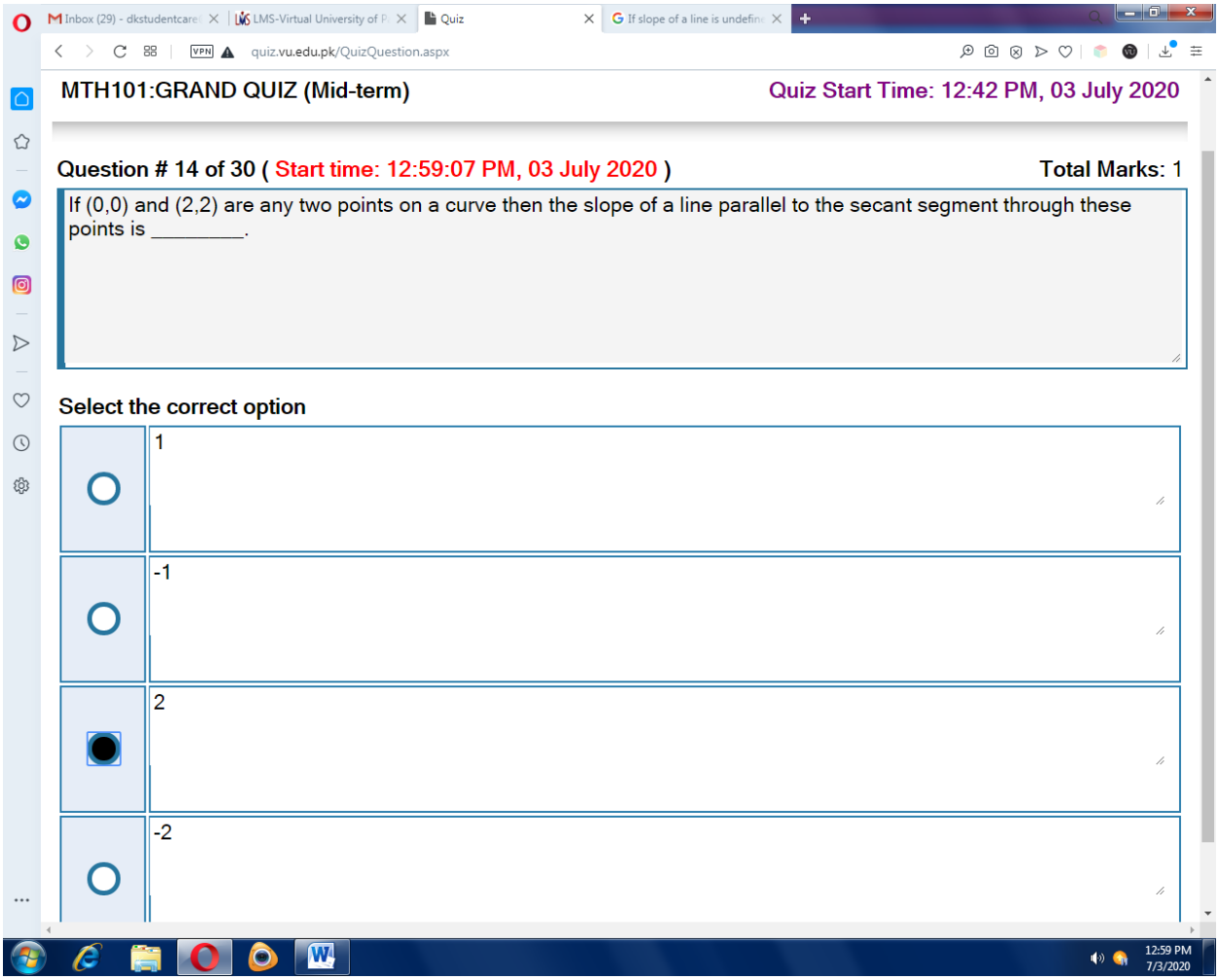
Quiz
If slope of a line is undefin
quiz.vu.edu.pk/QuizQuestion.aspx
MTH101:GRAND QUIZ (Mid-term)
Quiz Start Time: 12:42 PM, 03 July 2020
Question # 13 of 30 (Start time: 12:58:08 PM, 03 July 2020)
Total Marks: 1
Is the graph of equation
4y = 3x
symmetric about x-axis?
Select the correct option
Yes
No
12:58 PM
7/3/2020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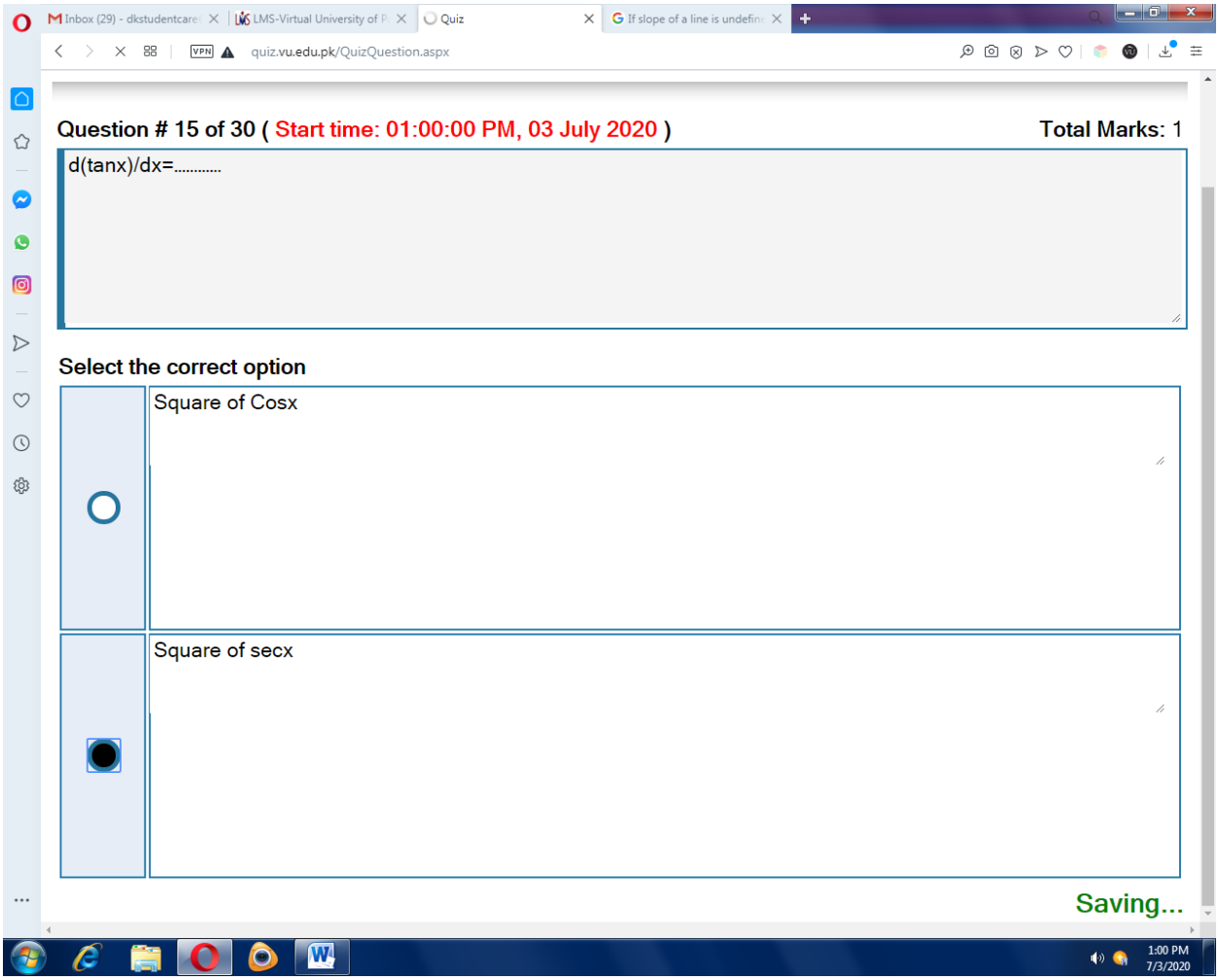
Quiz
If slope of a line is undefin
quiz.vu.edu.pk/QuizQuestion.aspx
MTH101:GRAND QUIZ (Mid-term)
Quiz Start Time: 12:42 PM, 03 July 2020
Question # 14 of 30 (Start time: 12:59:07 PM, 03 July 2020)
Total Marks: 1
If (0,0) and (2,2) are any two points on a curve then the slope of a line parallel to the secant segment through these points is _____.
Select the correct option
1
-1
2
-2
12:59 PM
7/3/2020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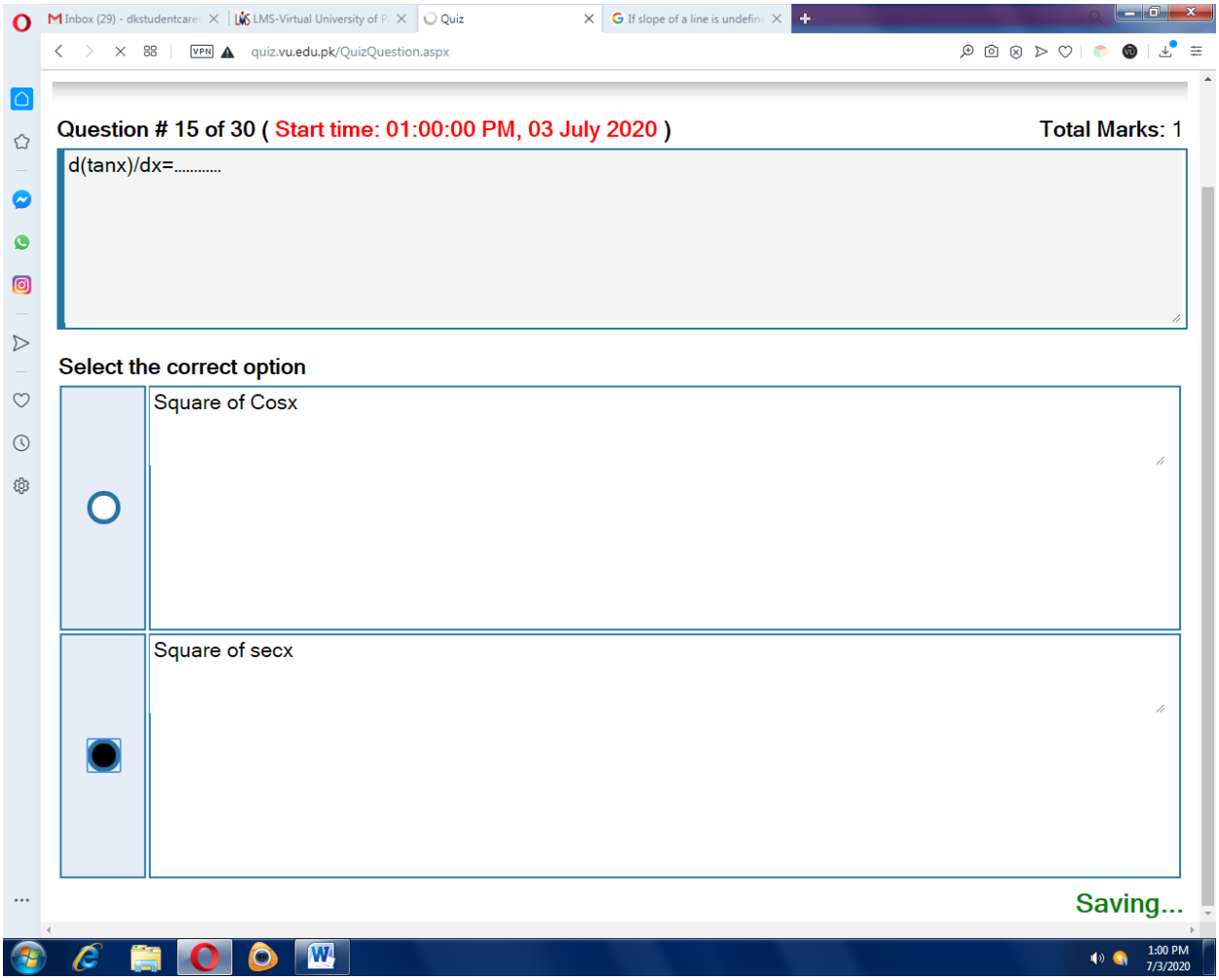
Quiz
If slope of a line is undefin
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 15 of 30 (Start time: 01:00:00 PM, 03 July 2020)
Total Marks: 1
d(tanx)/dx=.....
Select the correct option
Square of Cosx
Square of secx
Saving...
1:00 PM
7/3/2020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Quiz
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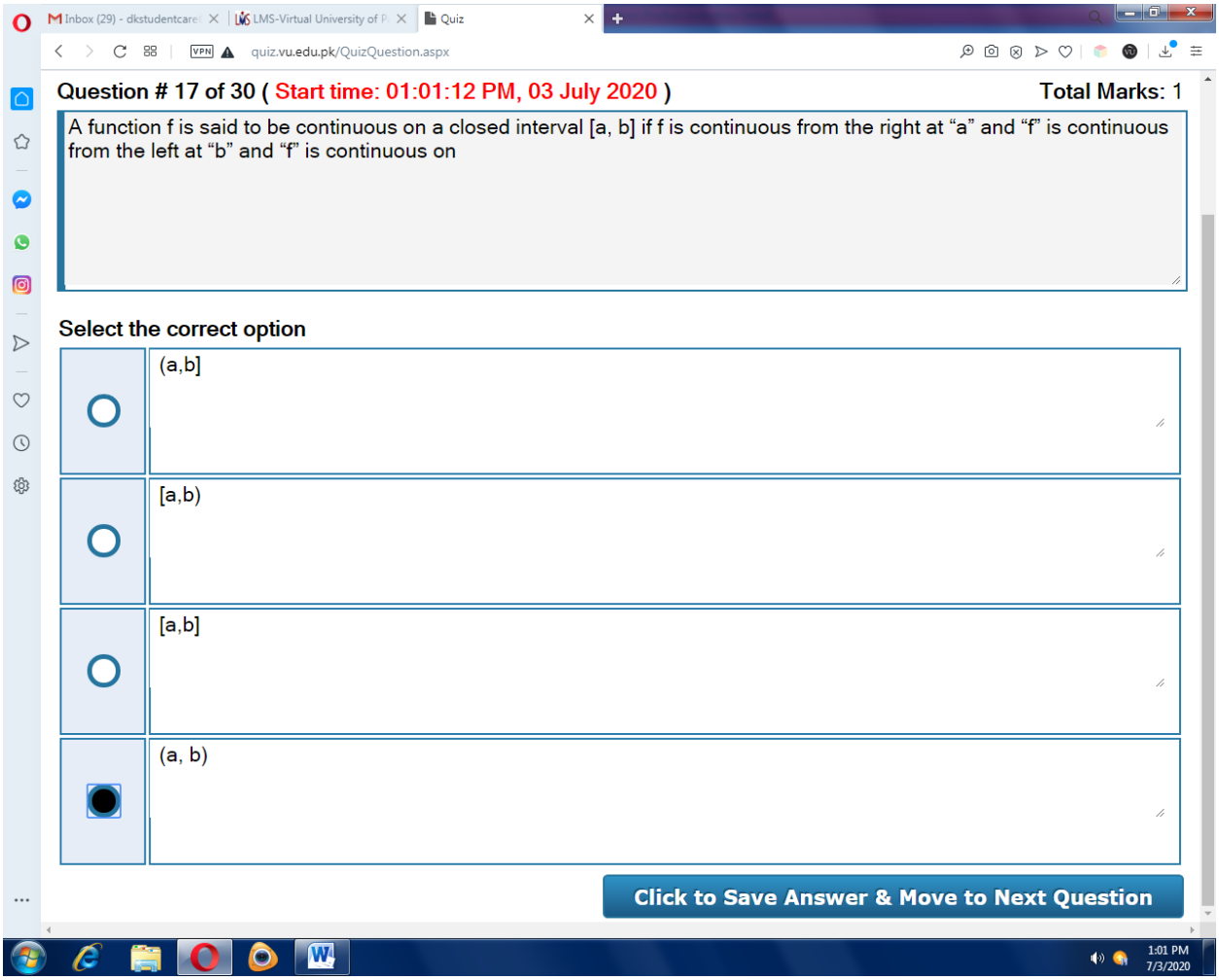
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 15 of 30 (Start time: 01:00:00 PM, 03 July 2020)
Total Marks: 1
d(tanx)/dx=.....
Select the correct option
Square of Cosx
Square of secx
Saving...
1:00 PM
7/3/2020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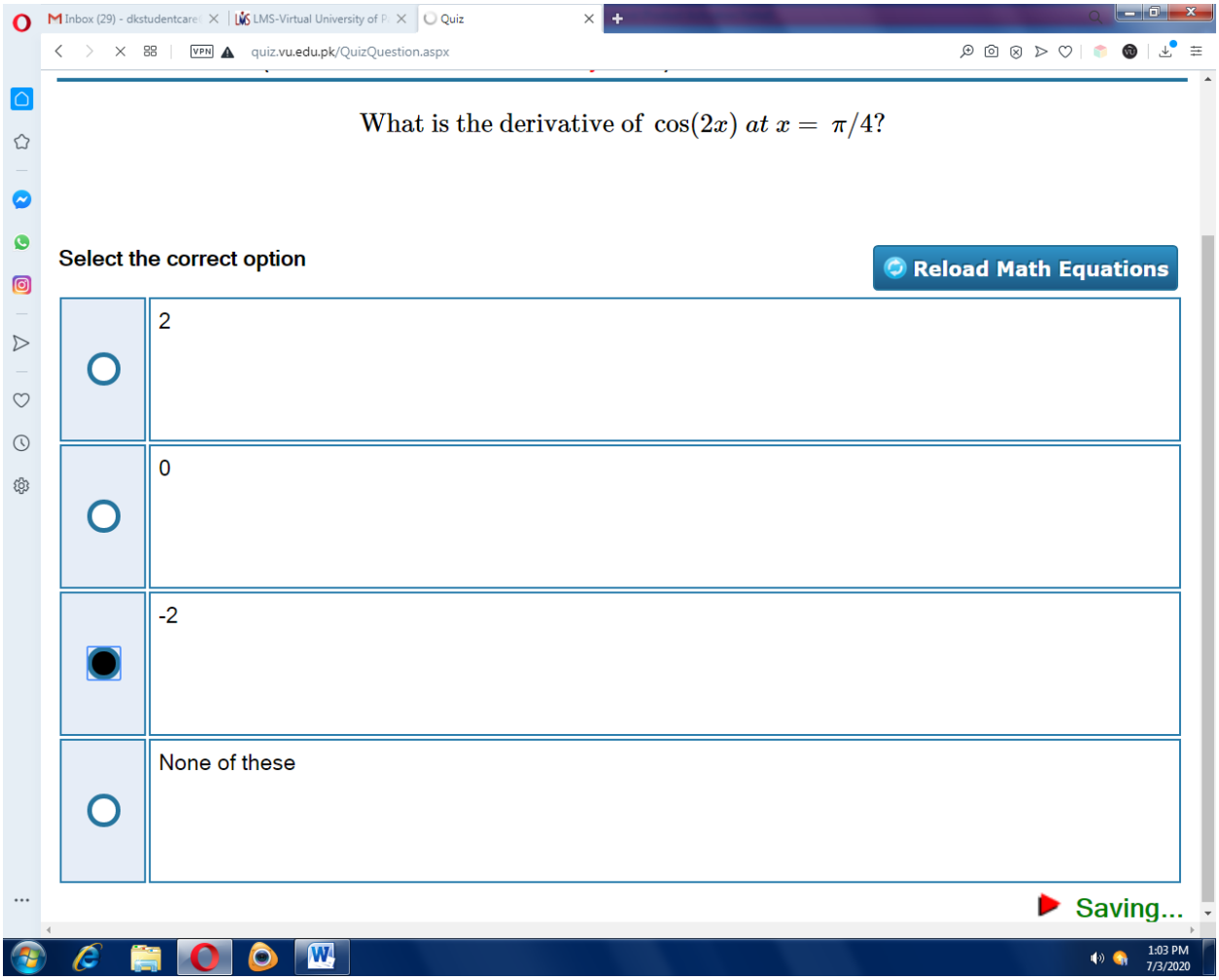
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 17 of 30 (Start time: 01:01:12 PM, 03 July 2020)
Total Marks: 1
A function f is said to be continuous on a closed interval [a, b] if f is continuous from the right at “a” and “f” is continuous from the left at “b” and “f” is continuous on
Select the correct option
(a,b]
[a,b)
[a,b]
(a, b)
Click to Save Answer & Move to Next Question
1:01 PM
7/3/2020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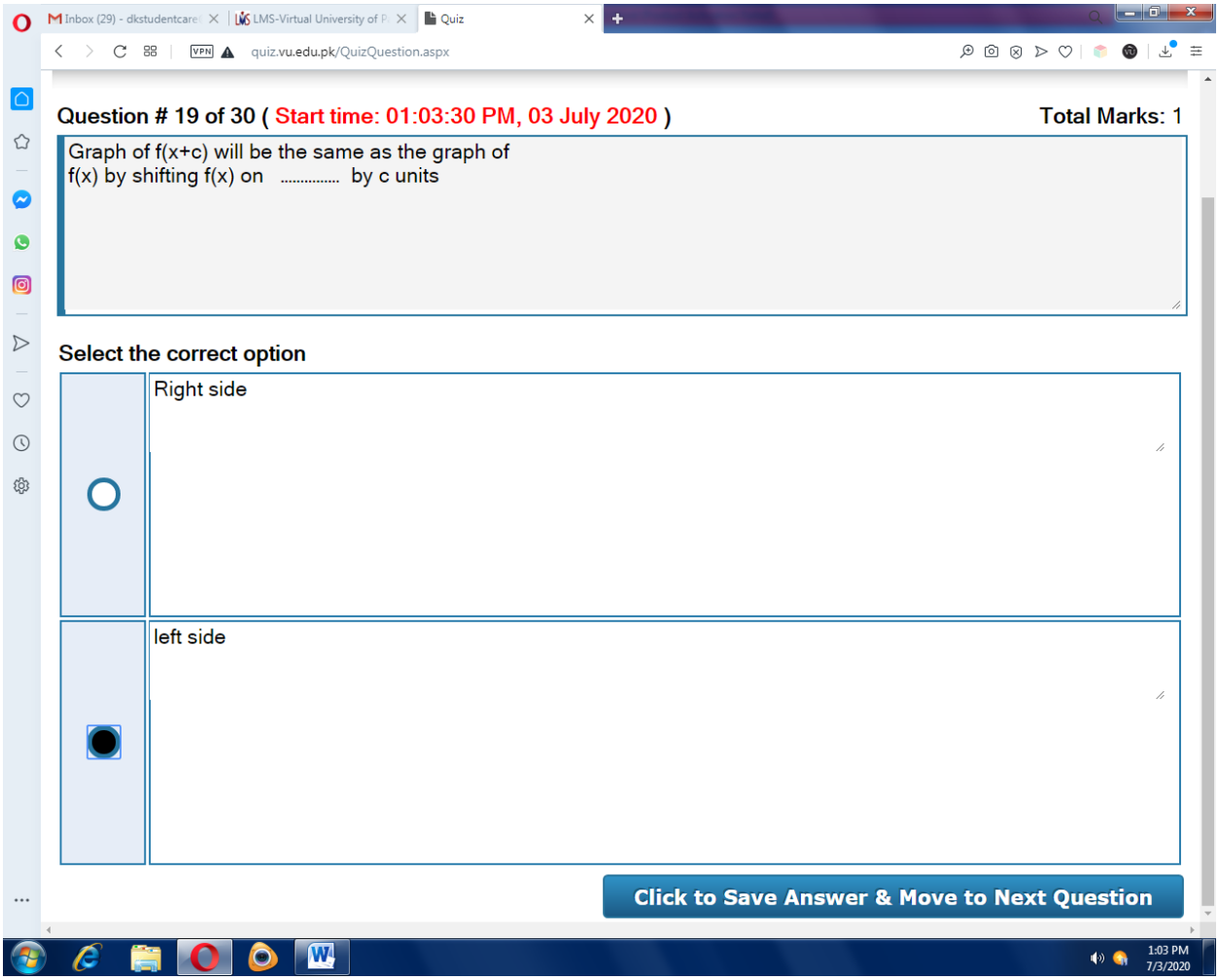
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
What is the derivative of $\cos(2x)$ at $x = \pi/4$?
Select the correct option
Reload Math Equations
2
0
-2
None of these
Saving...
1:03 PM
7/3/2020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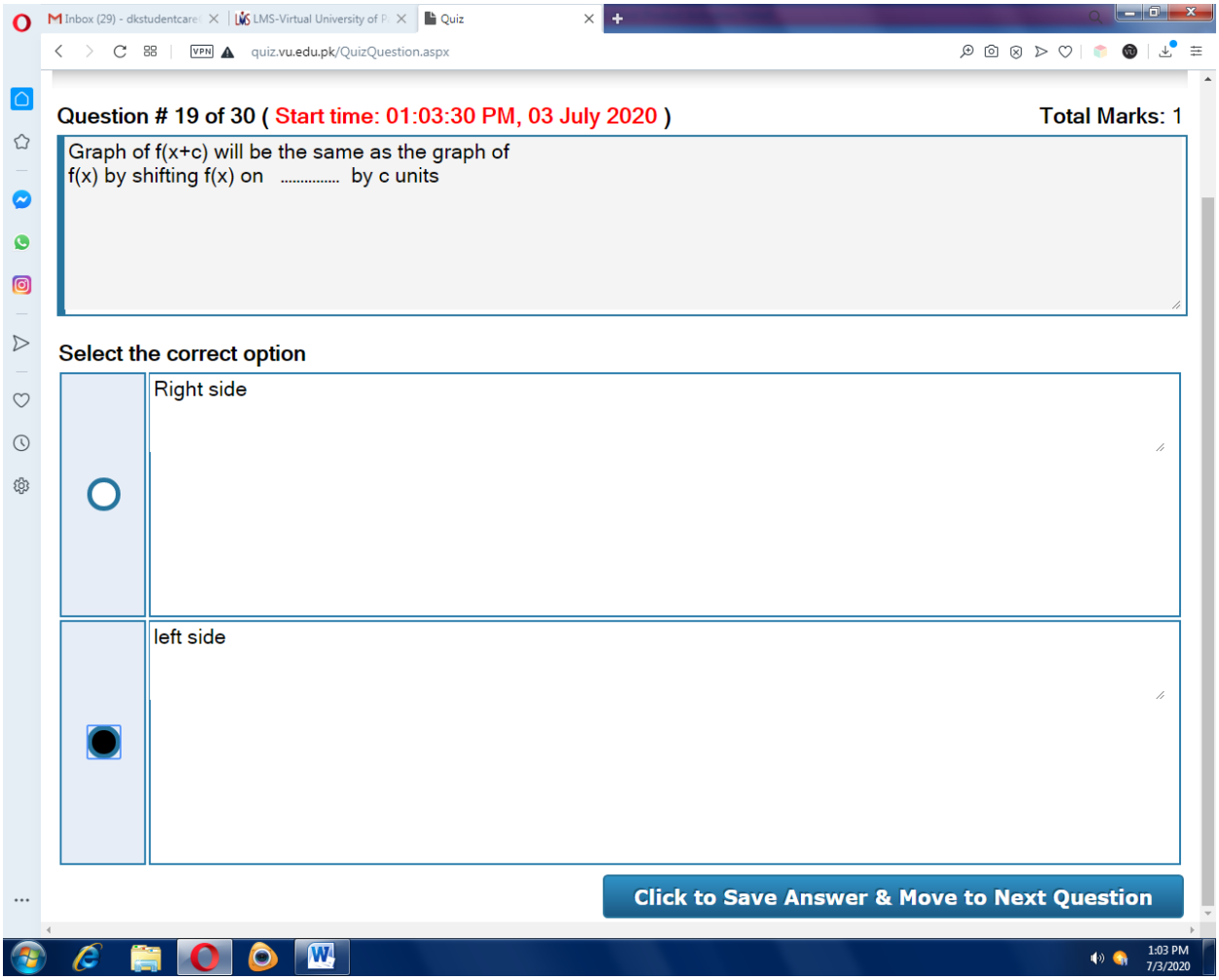
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 19 of 30 (Start time: 01:03:30 PM, 03 July 2020)
Total Marks: 1
Graph of f(x+c) will be the same as the graph of f(x) by shifting f(x) on ..... by c units
Select the correct option
Right side
left side
Click to Save Answer & Move to Next Question
1:03 PM
7/3/2020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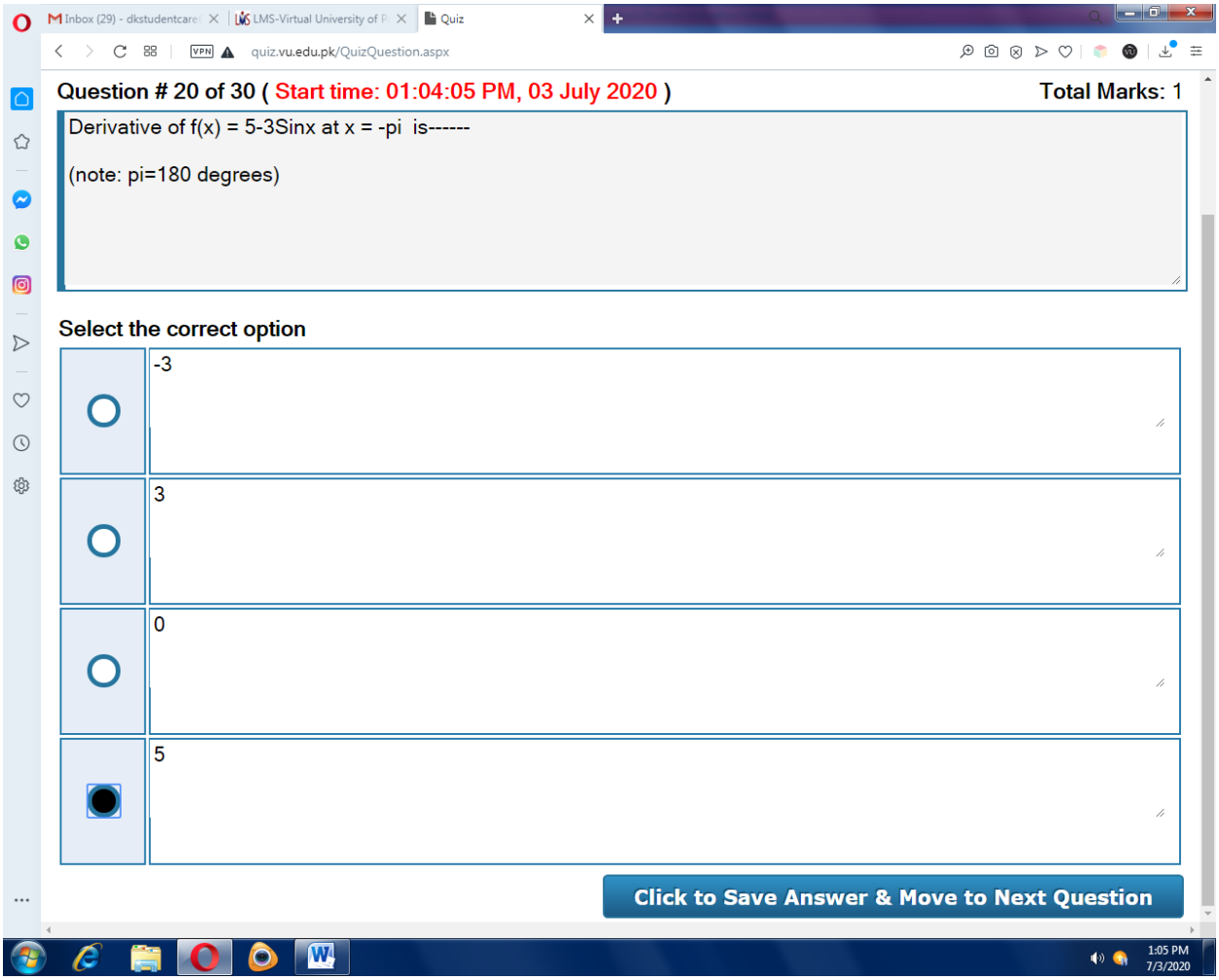
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 19 of 30 (Start time: 01:03:30 PM, 03 July 2020)
Total Marks: 1
Graph of f(x+c) will be the same as the graph of f(x) by shifting f(x) on ..... by c units
Select the correct option
Right side
left side
Click to Save Answer & Move to Next Question
1:03 PM
7/3/2020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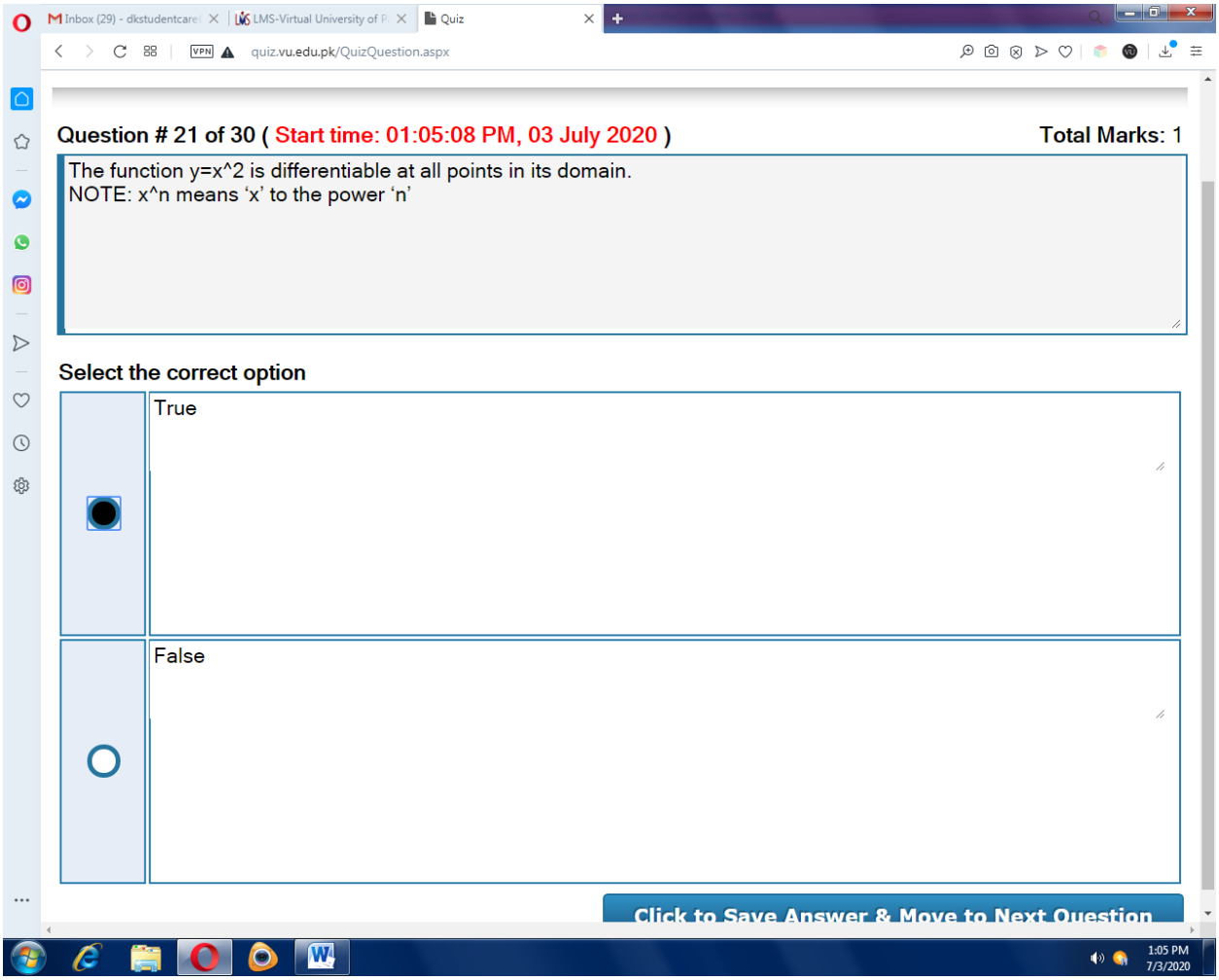
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 20 of 30 (Start time: 01:04:05 PM, 03 July 2020)
Total Marks: 1
Derivative of f(x) = 5-3Sinx at x = -pi is------
(note: pi=180 degrees)
Select the correct option
-3
3
0
5
Click to Save Answer & Move to Next Question
1:05 PM
7/3/2020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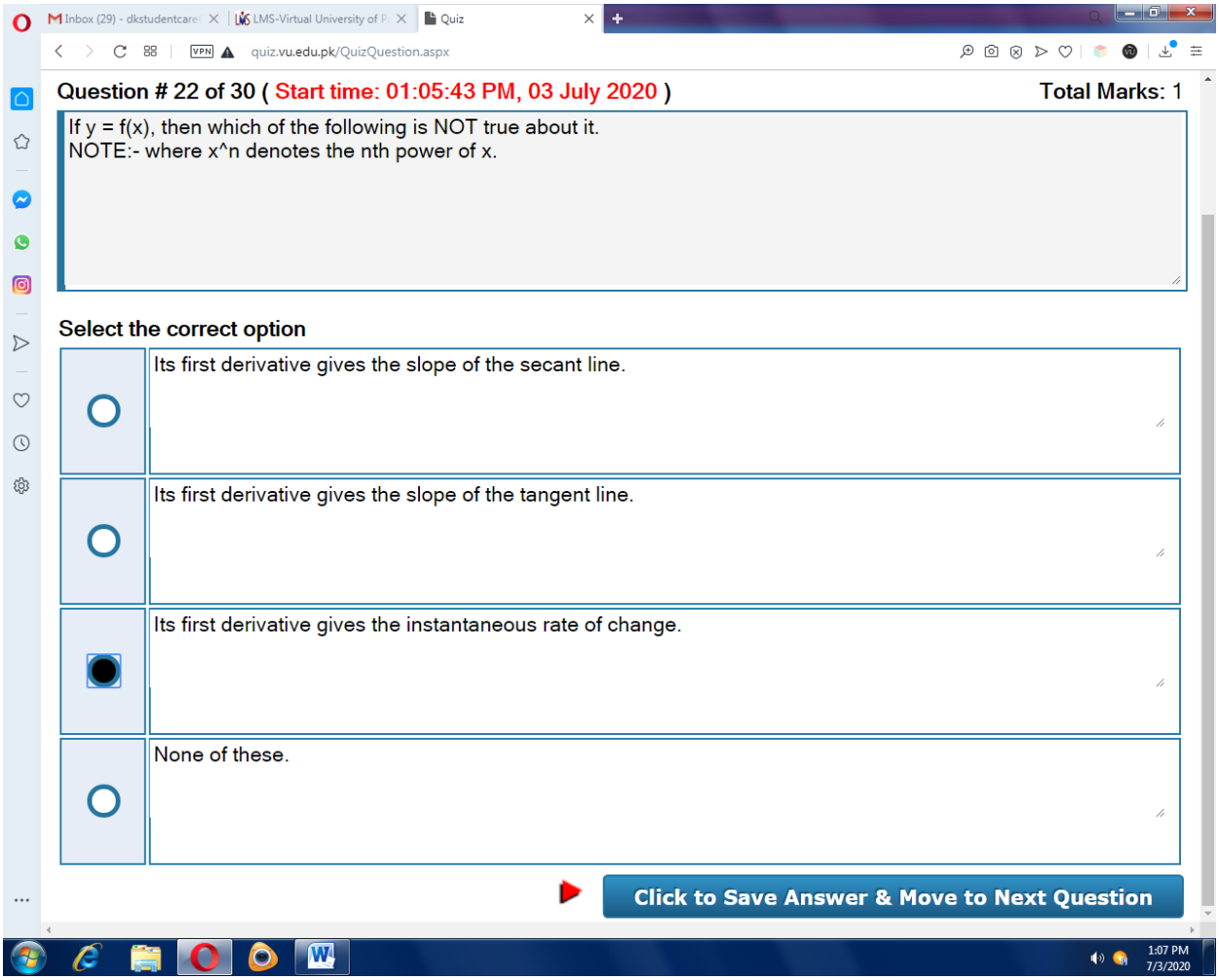
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 21 of 30 (Start time: 01:05:08 PM, 03 July 2020)
Total Marks: 1
The function y=x^2 is differentiable at all points in its domain.
NOTE: x^n means 'x' to the power 'n'
Select the correct option
True
False
Click to Save Answer & Move to Next Question
1:05 PM
7/3/2020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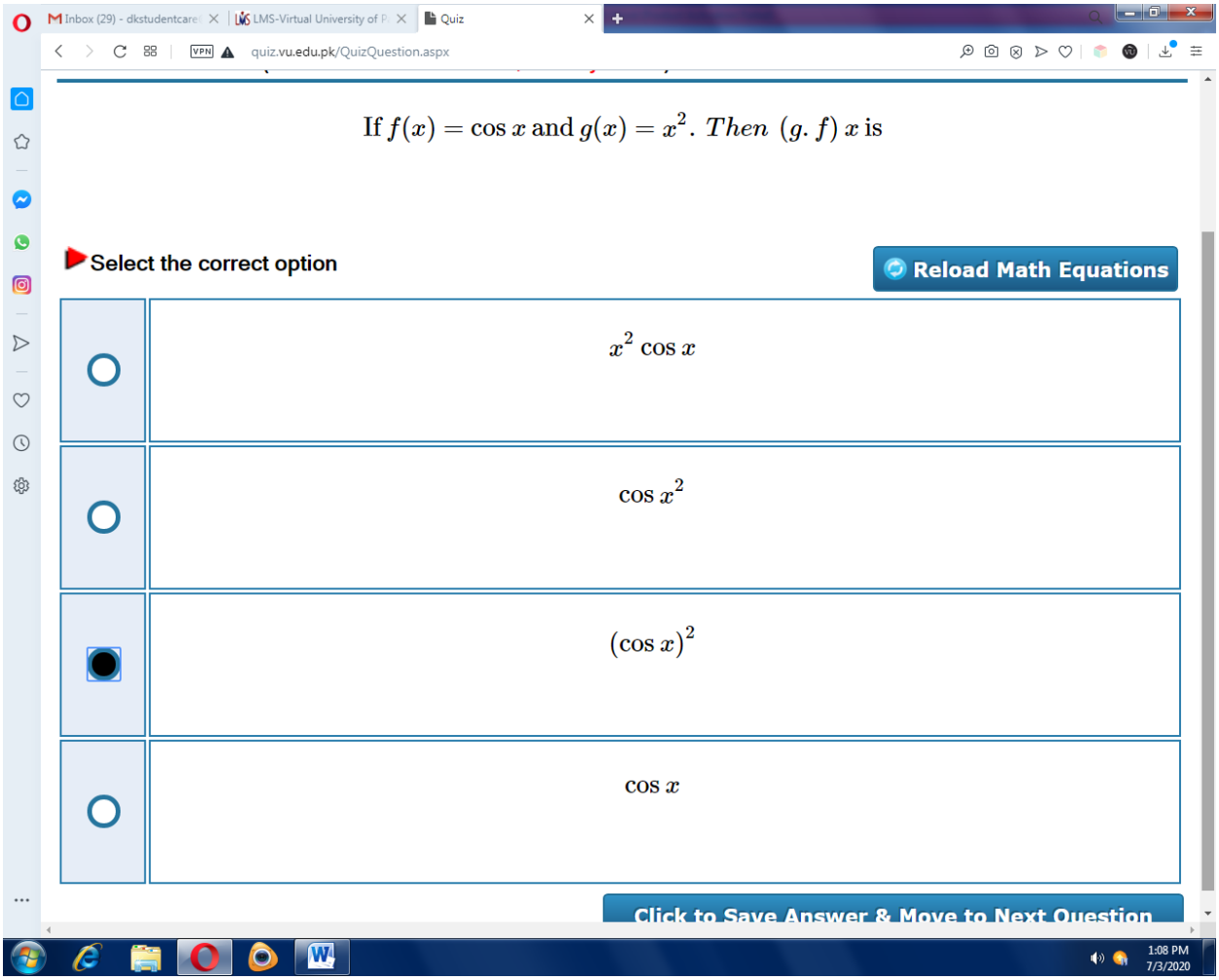
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 22 of 30 (Start time: 01:05:43 PM, 03 July 2020)
Total Marks: 1
If y = f(x), then which of the following is NOT true about it.
NOTE:- where x^n denotes the nth power of x.
Select the correct option
Its first derivative gives the slope of the secant line.
Its first derivative gives the slope of the tangent line.
Its first derivative gives the instantaneous rate of change.
None of these.
Click to Save Answer & Move to Next Question
1:07 PM
7/3/2020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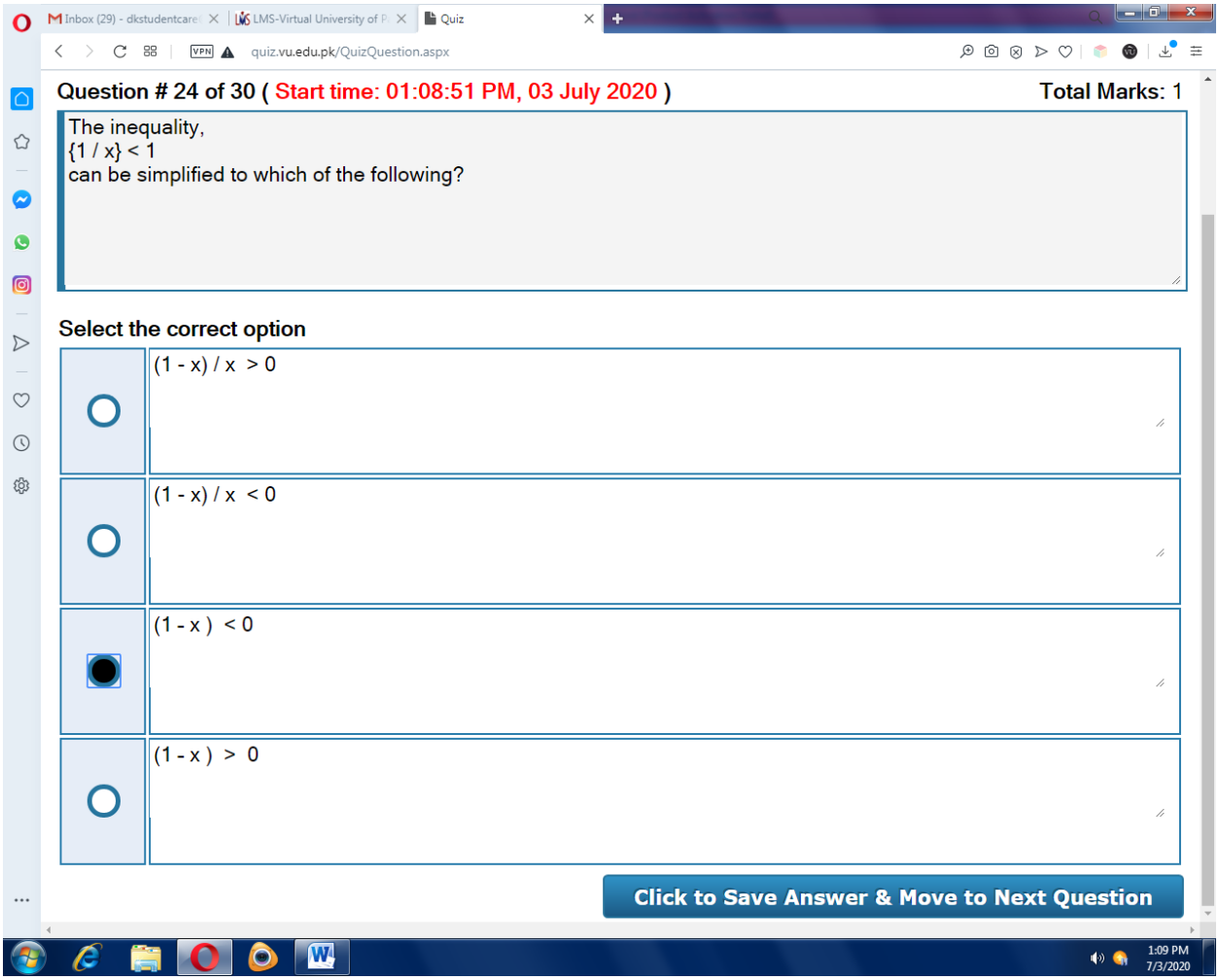
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
If $f(x) = \cos x$ and $g(x) = x^2$. Then $(g.\ f)\ x$ is
Select the correct option
Reload Math Equations
$x^2 \cos x$
$\cos x^2$
$(\cos x)^2$
$\cos x$
Click to Save Answer & Move to Next Question
1:08 PM
7/3/2020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Quiz
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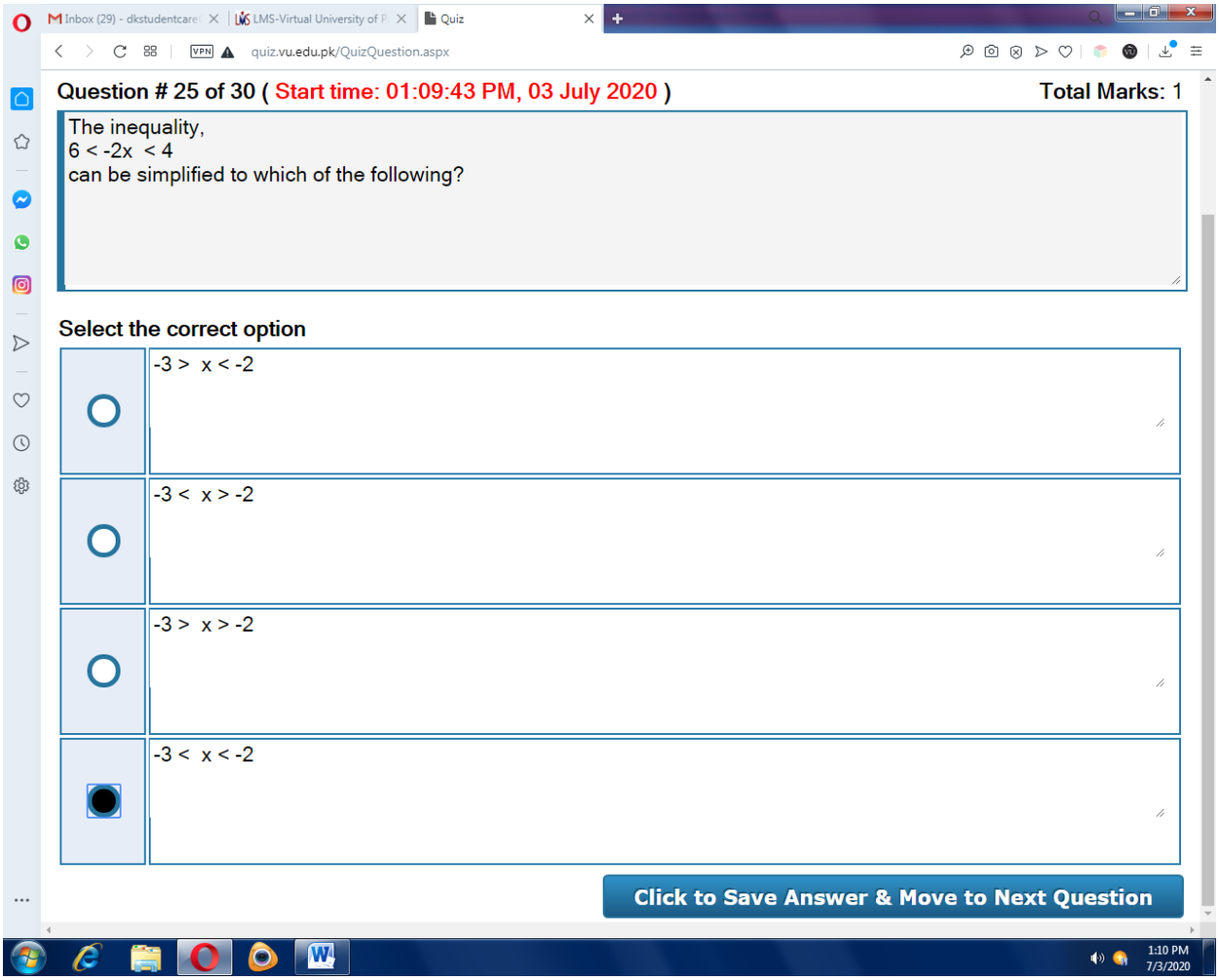
Question # 24 of 30 (Start time: 01:08:51 PM, 03 July 2020)
Total Marks: 1
The inequality,
{1 / x} < 1
can be simplified to which of the following?
Select the correct option
(1 - x) / x > 0
(1 - x) / x < 0
(1 - x) < 0
(1 - x) > 0
Click to Save Answer & Move to Next Question
1:09 PM
7/3/2020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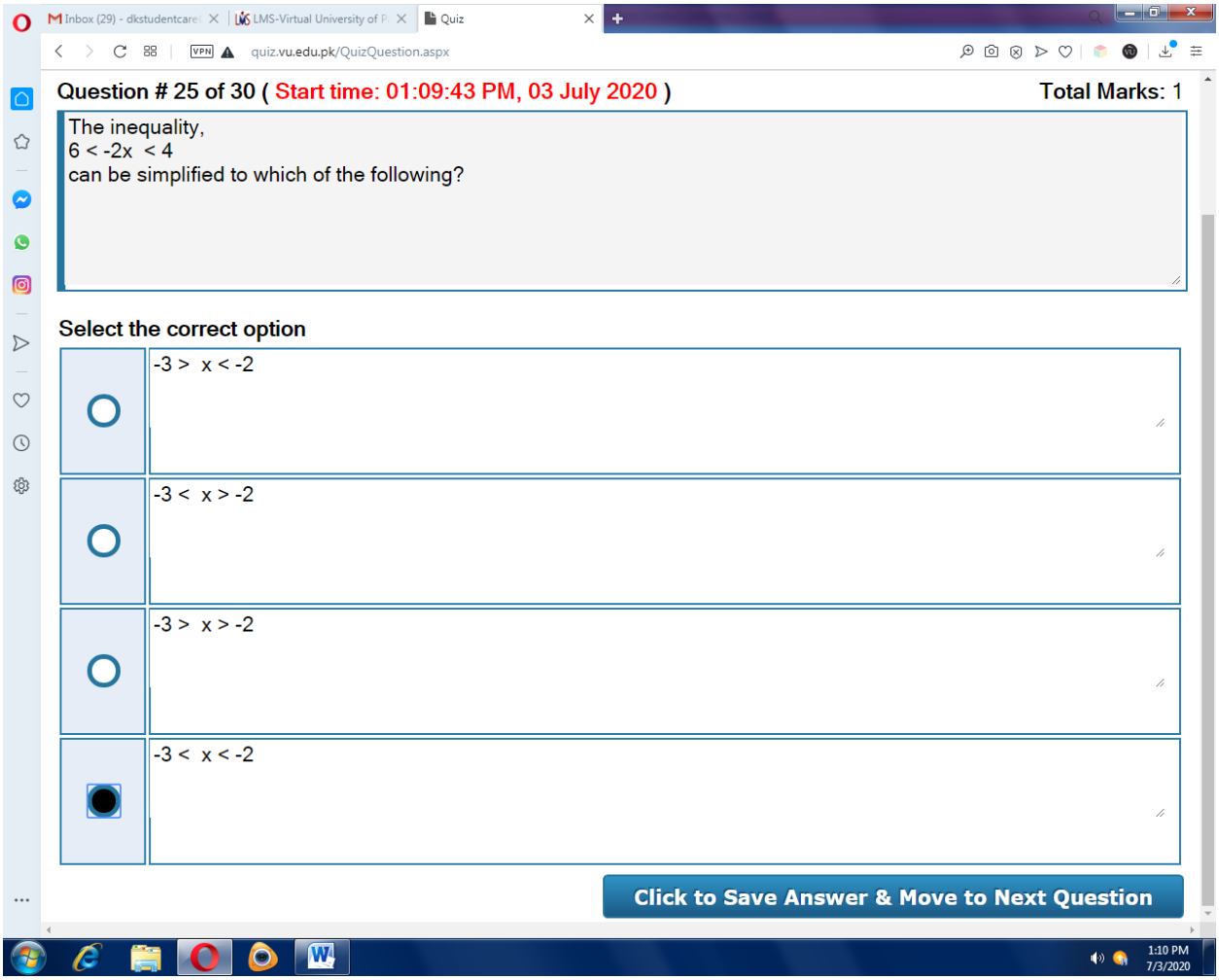
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 25 of 30 (Start time: 01:09:43 PM, 03 July 2020)
Total Marks: 1
The inequality,
6 < -2x < 4
can be simplified to which of the following?
Select the correct option
-3 > x < -2
-3 < x > -2
-3 > x > -2
-3 < x < -2
Click to Save Answer & Move to Next Question
1:10 PM
7/3/2020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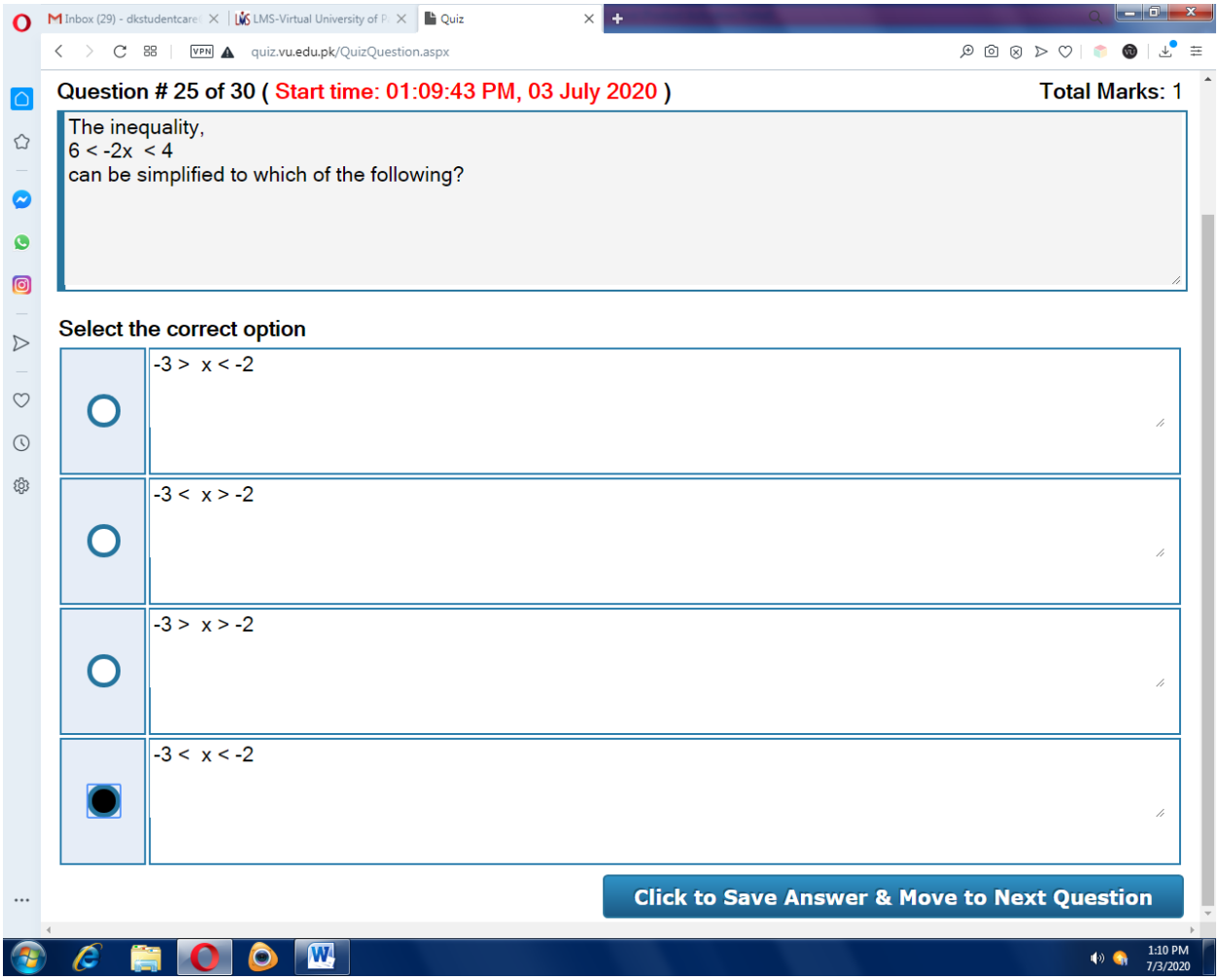
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 25 of 30 (Start time: 01:09:43 PM, 03 July 2020)
Total Marks: 1
The inequality,
6 < -2x < 4
can be simplified to which of the following?
Select the correct option
-3 > x < -2
-3 < x > -2
-3 > x > -2
-3 < x < -2
Click to Save Answer & Move to Next Question
1:10 PM
7/3/2020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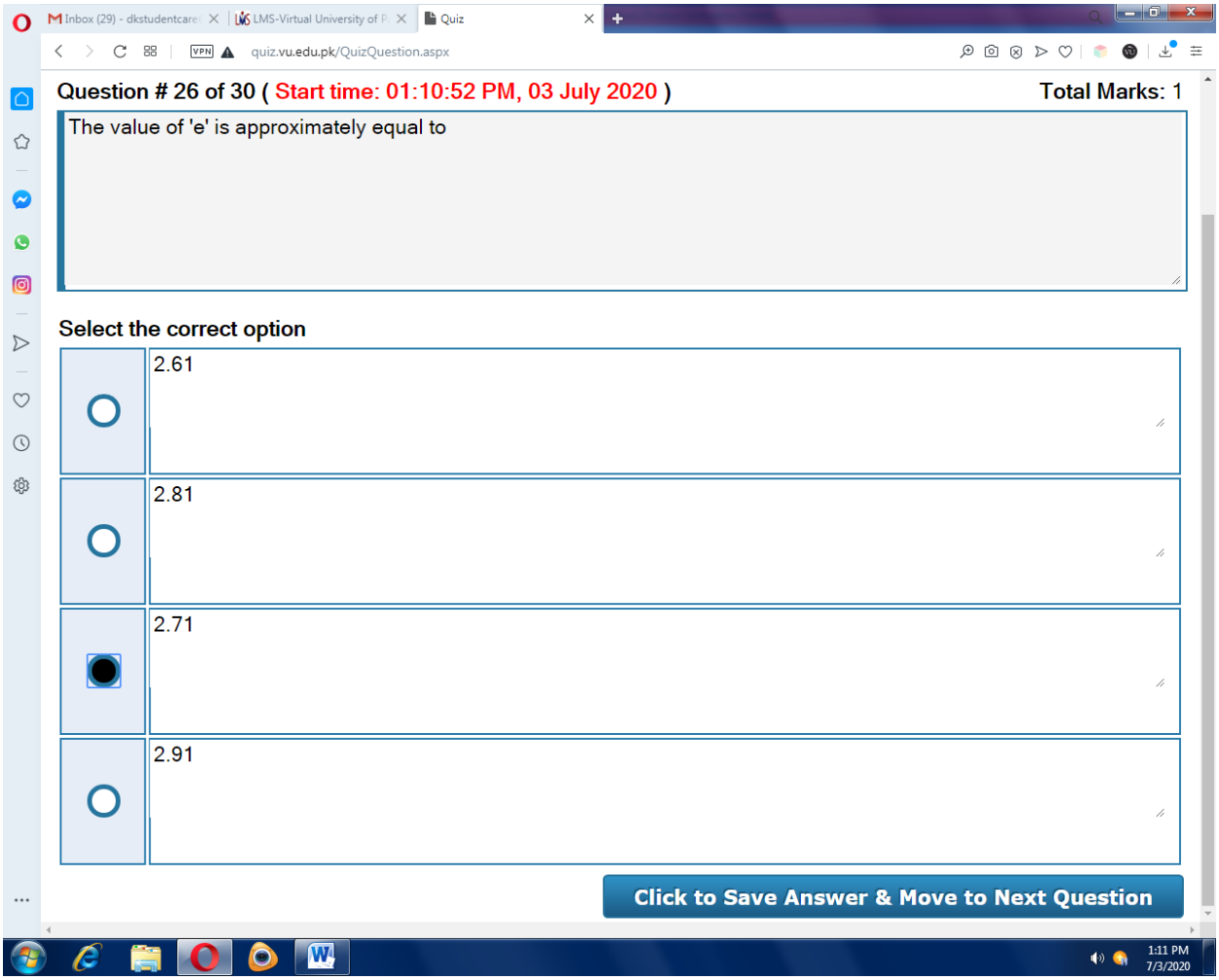
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 25 of 30 (Start time: 01:09:43 PM, 03 July 2020)
Total Marks: 1
The inequality,
6 < -2x < 4
can be simplified to which of the following?
Select the correct option
-3 > x < -2
-3 < x > -2
-3 > x > -2
-3 < x < -2
Click to Save Answer & Move to Next Question
1:10 PM
7/3/2020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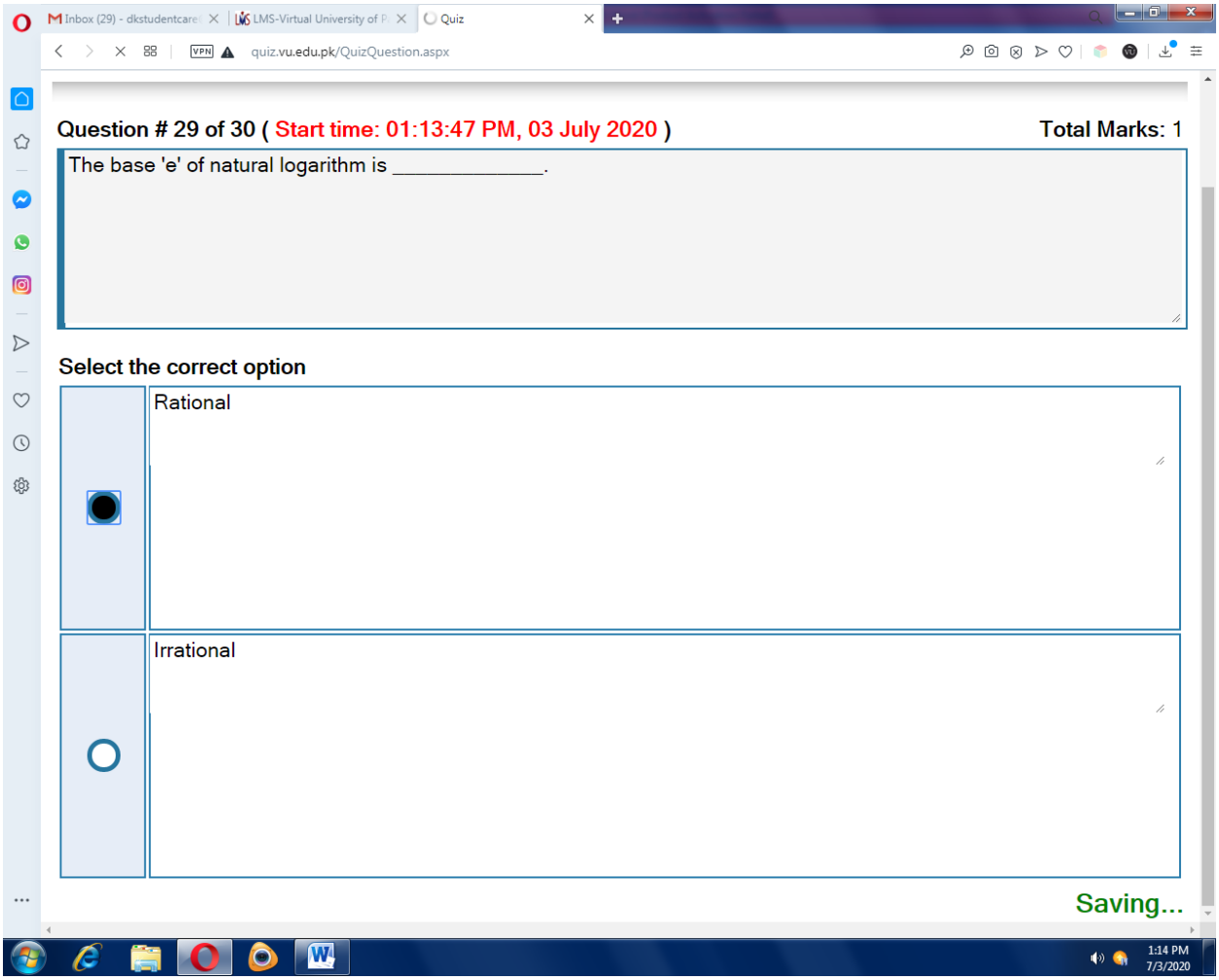
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 26 of 30 (Start time: 01:10:52 PM, 03 July 2020)
Total Marks: 1
The value of 'e' is approximately equal to
Select the correct option
2.61
2.81
2.71
2.91
Click to Save Answer & Move to Next Question
1:11 PM
7/3/2020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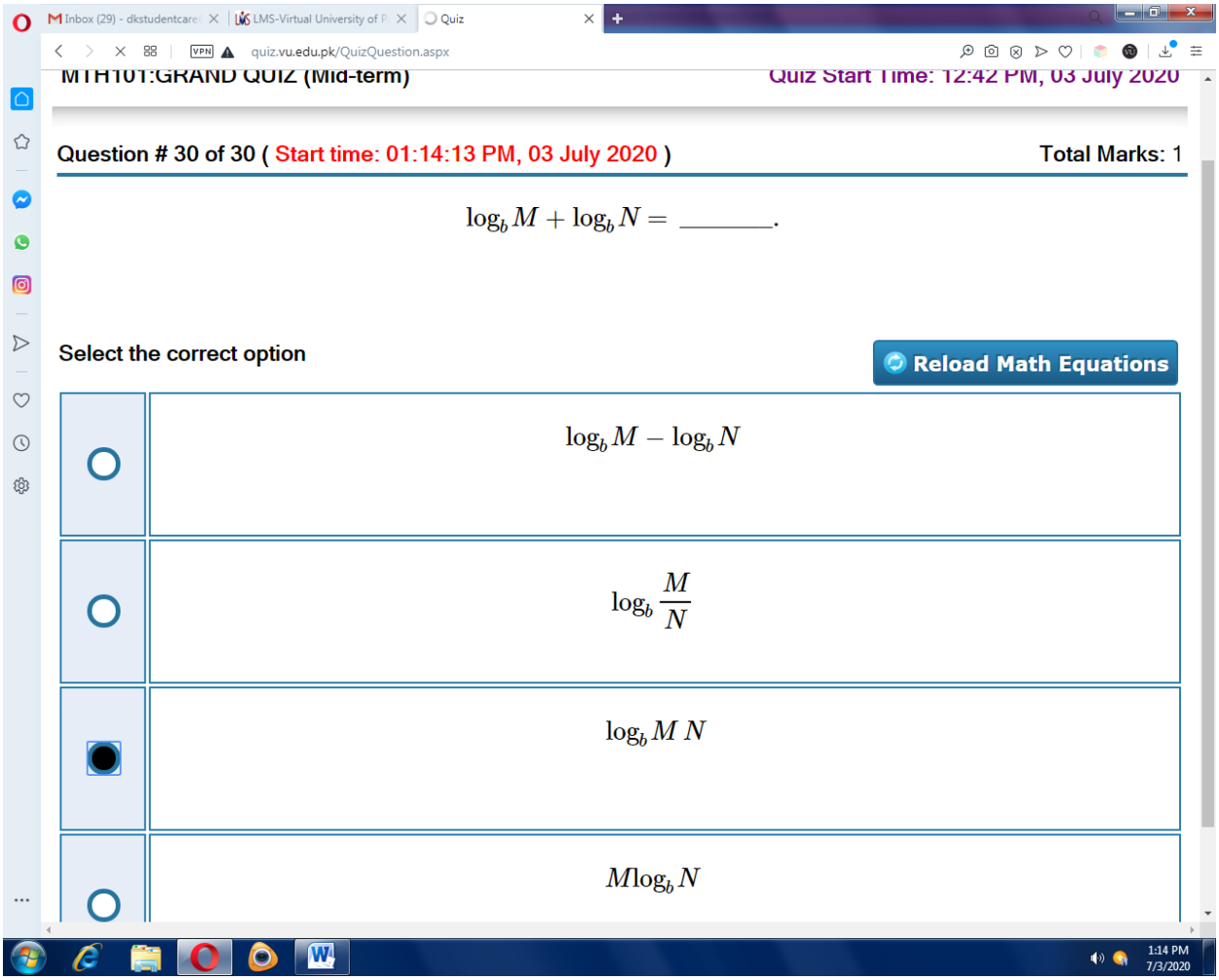
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 29 of 30 (Start time: 01:13:47 PM, 03 July 2020)
Total Marks: 1
The base 'e' of natural logarithm is _____.
Select the correct option
Rational
Irrational
Saving...
1:14 PM
7/3/2020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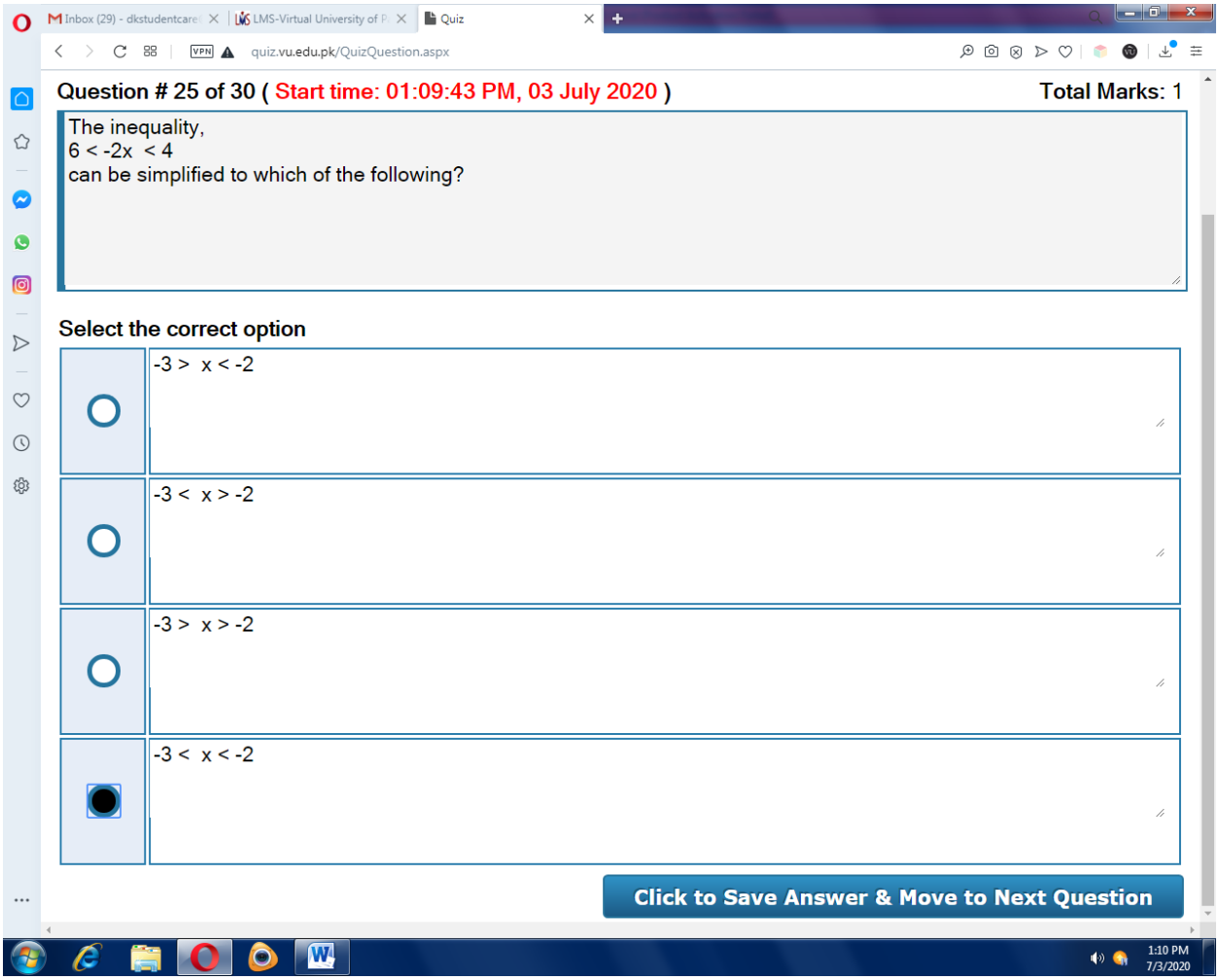
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
MTH101:GRAND QUIZ (Mid-term)
Quiz Start Time: 12:42 PM, 03 July 2020
Question # 30 of 30 (Start time: 01:14:13 PM, 03 July 2020)
Total Marks: 1
$\log_b M + \log_b N =$ _____.
Select the correct option
Reload Math Equations
$\log_b M - \log_b N$
$\log_b \frac{M}{N}$
$\log_b M\,N$
$M\log_b N$
1:14 PM
7/3/2020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LMS-Virtual University of P
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx
Question # 25 of 30 (Start time: 01:09:43 PM, 03 July 2020)
Total Marks: 1
The inequality,
6 < -2x < 4
can be simplified to which of the following?
Select the correct option
-3 > x < -2
-3 < x > -2
-3 > x > -2
-3 < x < -2
Click to Save Answer & Move to Next Question
1:10 PM
7/3/2020