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YOUTUBE CHANNEL

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Quiz

quiz.vu.edu.pk

BC210409412: KHADIJA ASGHAR

Time Left

89

sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:56 PM, 25 June 2022

Question # 3 of 10 (Start time: 09:58:20 PM, 25 June 2022)

Total Marks: 1

If $f(x) = \cos(2x)$ then its derivative by chain rule is

Select the correct option

Reload Math Equations

☐	$\sin(2x).2$
☐	$-\sin(2x).2$
☐	$\sin(x).2$
☐	$-\sin(x).2$

Click to Save Answer & Move to Next Question

SANAULLAH KHAN (Msc Mathematics)

For Online Tusion, Paid Quiz & Assignment Call (03066793776)

YOUTUBE CHANNEL S K H A N A C A D E M Y



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BC210425029: ABEEDA FATIMA

Time Left 89 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:08 PM, 25 June 2022

Question # 1 of 10 (Start time: 09:08:19 PM, 25 June 2022)

Total Marks: 1

The tangent function is defined by $\tan x = \sin x / \cos x$

Select the correct option

- ☐ False
- ☒ True

Click to Give Answer & Move to Next Question



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BC210409412: KHADIJA ASGHAR

Time Left

89

sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:56 PM, 25 June 2022

Question # 8 of 10 (Start time: 10:02:39 PM, 25 June 2022)

Total Marks: 1

If $f(x) = (x^2 + \sin(x) + \cos(x))^{10}$, then the derivative of $f(x)$ is _____.

Select the correct option

Reload Math Equations

☐	None of these.
☒	$10(x^2 + \sin(x) + \cos(x))^9(2x + \cos(x) - \sin(x))$
☐	$10(x^2 + \sin(x) + \cos(x))^9(2x + \cos(x) + \sin(x)).$
☐	$10(x^2 + \sin(x) + \cos(x))^9$

Click to Save Answer & Move to Next Question

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8



Quiz Start Time: 1

09:27:02 PM, 25 June 2022)

The derivative of $(\sin(\cos x))$ is

☒ $-\cos(\cos x) \cdot \sin x$

☐ $\cos(\cos x)$

☐ $-\sin(\cos x) \cdot \sin x$

☐ $\cos(\sin x)$

Click to Save Answer & Move



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What is the derivative of $\sin(x^2) + \cos(2x)$?

$$2x \cos(x^2) + 2 \sin 2x$$

$$2x \cos(x^2) - 2 \sin 2x$$

$$2x \sin(x^2) + 2 \cos 2x$$

None of these.

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Question # 3 of 10 (Start time: 09:48:35 PM, 25 June 2022)

The derivative of $(x^2) + 2\sin x$ w. r. t x is

Select the correct option

☒	$2x+2\cos x$
☐	$-2x-2\cos x$
☐	$-2x+2\sin x$
☐	$2x-2\cos x$

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Q. 10 (Marked: 05:47:06 PM, 25 June 2022)

The average velocity of any object can be represented geometrically by _____

Select the correct option

☐	None of these.
☒	the slope of the secant line.
☐	the slope of the tangent line.
☐	Both slope of tangent and secant.

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BC210424624: AZKA MUMTAZ

MTH101:Quiz 1

Question # 4 of 10 (Start time: 10:06:15 PM, 25 June 2022)

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

Select the correct option

- | | |
|----------------------------------|------------------------|
| ☐ | displacement |
| ☐ | average velocity |
| ☐ | acceleration |
| ☒ | instantaneous velocity |

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Quiz List x Quiz x +

← → ↻ quiz.vu.edu.pk/QuizQuestion.aspx?ver=805c7bd3-42b5-40d3-b3d9-e0823b929414

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BC210424624: AZKA MUMTAZ

MTH101: Quiz 1

Question # 1 of 10 (Start time: 10:03:47 PM, 25 June 2022)

At a corner a tangent line does not exist because the slopes of the secant lines do not have a (two sided) limit.

Select the correct option

☐	True
☐	False

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Quiz

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BC180408165: HIRA ASGHAR

Time Left

79

sec(s)

MTH101:Quiz 1

Quiz Start Time: 10:12 PM, 25 June 2022

Question # 5 of 10 (Start time: 10:21:13 PM, 25 June 2022)

Total Marks: 1

If $f(x) = \sec x^5$ and $g(x) = \tan(2x)$, then the derivative of $f(x) - g(x)$ is _____

Select the correct option

Reload Math Equations

☐	$\sec x^4 \tan x^4 - 2 \sec^2(2x)$
☐	$\sec(x) + 2 \tan(x).$
☐	$5 \sec x^5 \tan x^5 - 2 \sec^2(2x)$
☐	$5x^4 \sec x^5 \tan x^5 - 2 \sec^2(2x) .$

Click to Save Answer & Move to Next Question

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BC210424624: AZKA MUMTAZ

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MTH101:Quiz 1

Question # 7 of 10 (Start time: 10:09:10 PM, 25 June 2022)

Derivative of absolute value function:
 $f(x) = \text{Abs}(x) = |x|$ at $x = 2$ is

Select the correct option

☐	2
☐	1
☒	does not exist
☐	zero



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22:02

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BC210409412: KHADIJA ASGHAR

Time Left

89

sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:56 PM, 25 June 2022

Question # 6 of 10 (Start time: 10:00:49 PM, 25 June 2022)

Total Marks: 1

If $Y=3x$, then instantaneous rate of change of 'y' w.r.t 'x' at '5' is.....

Select the correct option

☐	4
☒	3
☐	6
☐	2

Click to Save Answer & Move to Next Question

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Quiz

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BC210409412: KHADIJA ASGHAR

Time Left 88 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:56 PM, 25 June 2022

Question # 5 of 10 (Start time: 10:00:06 PM, 25 June 2022)

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

☐	secant
☐	parabola
☐	tangent
☐	circle

Click to Save Answer & Move to Next Question

9:37

YOUTUBE CHANNEL SANAULLAH KHAN ACADEMY



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Question # 4 of 10 (Start time: 09:38:12 PM, 25 June 2022)

Tot

Derivative of a constant is zero.

Select the correct option



True



False

Back to Quiz (Resume & Monitor Next Question)

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8



BC210425998: SAJMA NOREEN

Time Left: 89 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:19 PM, 25 June 2022

Question # 3 of 10 (Start time: 09:21:12 PM, 25 June 2022)

Total Marks: 1

The derivative of $\frac{1}{-x+1}$ with respect to x is

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|-------------|
| ☐ | $1/(1+x)^2$ |
| ☒ | $1/(1-x)^2$ |
| ☐ | $(1-x)^2$ |
| ☐ | $1/(1-x)$ |

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BC210425029: ABEEDA FATIMA

Time Left 89 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:08 PM, 25 June 2022

Question # 7 of 10 (Start time: 09:15:22 PM, 25 June 2022)

Total Marks: 1

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

- | | |
|----------------------------------|-------|
| ☐ | 30m/h |
| ☒ | 50m/h |
| ☐ | 60m/h |
| ☐ | 40m/h |

Click to Save Answer & Mark it as a Question

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Quiz

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BC180408165: HIRA ASGHAR

Time Left 89 sec(s)

MTH101: Quiz 1

Quiz Start Time: 10:12 PM, 25 June 2022

Question # 2 of 10 (Start time: 10:14:01 PM, 25 June 2022)

Total Marks: 1

The slope of the tangent line to $y = x^2 + 5$ at $x = 2$ is _____.

NOTE:- where x^n denotes the nth power of x .

Select the correct option

☐	1/4
☐	None of these.
☐	-4
☒	4

Click to Save Answer & Move to Next Question

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MTH101:Quiz 1

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Question # 10 of 10 (Start time: 10:12:38 PM, 25 June 2022)

If $f(x) = x^3$ then $f'(2) =$
NOTE: x^n means 'x' to the power 'n'

Select the correct option

- | | |
|----------------------------------|---------------|
| ☐ | None of these |
| ☐ | 10 |
| ☒ | 12 |
| ☐ | 14 |



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BC210424624: AZKA MUMTAZ

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MTH101:Quiz 1

Question # 3 of 10 (Start time: 10:05:33 PM, 25 June 2022)

If $f(x) = x^2 + 2x + 3$, then which of the following is true about it.
NOTE:- where x^n denotes the nth power of x .

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | None of these. |
| ☐ | Its derivative will be equal to $2x + 2 + 1$. |
| ☐ | Its derivative will be equal to $2x + 1$. |
| ☒ | Its derivative will be equal to $2x + 2$. |

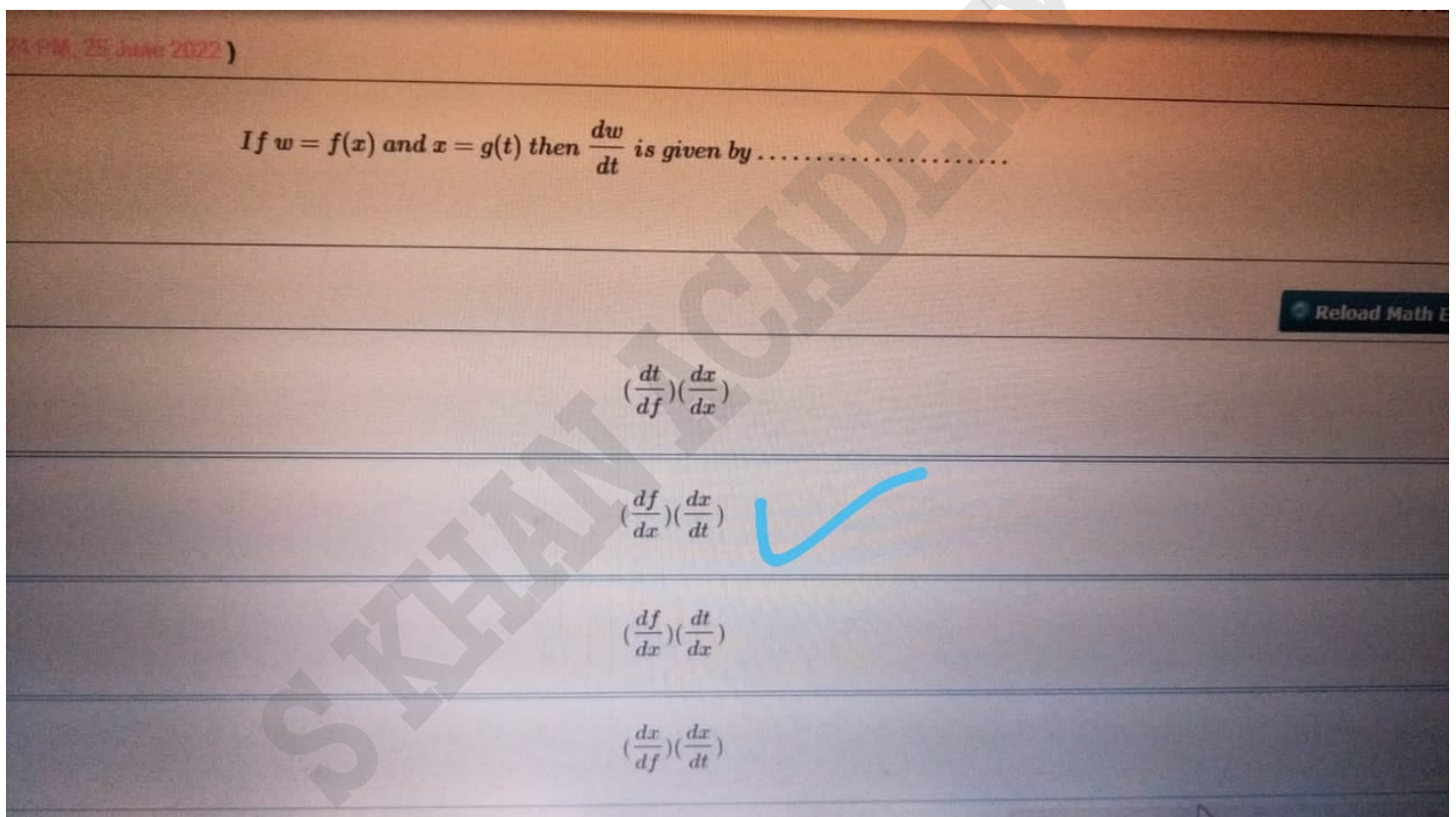


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BC210425029: ABEEDA FATIMA

Time Left 90 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:08 PM, 25 June 2022

Question # 2 of 10 (Start time: 09:08:42 PM, 25 June 2022)

Total Marks: 1

The equation of the tangent line passing through the point $(-3, 2)$ having the slope 4 is

Select the correct option

- | | |
|----------------------------------|---------------|
| ☐ | $y+2=-4(x+3)$ |
| ☒ | $y-2=4(x+3)$ |
| ☐ | $y+2=4(x+3)$ |
| ☐ | $y-2=4(x-3)$ |

Click to Save Answer & Mark it as Question

9:39

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MTH101: Quiz 1

Quiz Start Time: 09:34 PM, 25 June 2022

Question # 6 of 10 (Start time: 09:39:32 PM, 25 June 2022)

Total Mark:

For the curve: $f(t) = -2t+3$, the average rate of change of ' $f(t)$ ' over the interval $[-1,0]$ is _____.

Select the correct option

☐	-1
☒	-2
☐	1
☐	2

Clicking here Answer & Move to Next Question

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BC180408165: HIRA ASGHAR

Time Left 88 sec(s)

MTH101:Quiz 1

Quiz Start Time: 10:12 PM, 25 June 2022

Question # 10 of 10 (Start time: 10:28:57 PM, 25 June 2022)

Total Marks: 1

 x^0 where $x \neq 0$ is equal to

Select the correct option

Reload Math Equations

☒	1
☐	∞
☐	0
☐	None of these

Click to Save Answer & Move to Next Question

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BC210424624: AZKA MUMTAZ

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MTH101:Quiz 1

Question # 8 of 10 (Start time: 10:10:29 PM, 25 June 2022)

Sinx, Cosx and Tanx are called _____ functions.

Select the correct option

- | | |
|----------------------------------|---------------|
| ☐ | Quadratic |
| ☒ | Trigonometric |
| ☐ | Logarithmic |
| ☐ | Exponential |



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Quiz

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BC210409412: KHADIJA ASGHAR

Time Left

87

sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:56 PM, 25 June 2022

Question # 4 of 10 (Start time: 09:59:21 PM, 25 June 2022)

Total Marks: 1

What is the derivative of $\cos \operatorname{ec}(x^4)$?

Select the correct option

Reload Math Equations

☐	None of these
☐	$\cos \operatorname{ec}(x^4) \cot(x^4)$
☒	$-4x^3 \cos \operatorname{ec}(x^4) \cot(x^4)$
☐	$-\cos \operatorname{ec}(x^4) \cot(x^4)$

Click to Save Answer & Move to Next Question

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Question # 5 of 10 (Start time: 09:38:54 PM, 25 June 2022)

 $d/dx (\sin x) = \underline{\hspace{2cm}}$

Select the correct option

- | | |
|----------------------------------|--------|
| ☐ | -COSX |
| ☒ | COSX ✓ |
| ☐ | -tanx |
| ☐ | tanx |

[Click to See Answer & Move to Next Question](#)

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BC210425029: ABEEDA FATIMA

Time Left 89 sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:08 PM, 25 June 2022

Question # 9 of 10 (Start time: 09:17:10 PM, 25 June 2022)

Total Marks: 1

If $y=f(x)$ then instantaneous rate of change of y with respect to x at the point x_0 is given by slope of tangent line at $(x_0, f(x_0))$

Select the correct option

☐

True

☐

False

Click to Give Answer & Move to Next Question



9:36

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MTH101: Quiz 1

Quiz Start Time: 09:34 PM, 25 June 2022

Question # 3 of 10 (Start time: 09:36:40 PM, 25 June 2022)

Total Marks

$f(x) = \tan x^2$ and $g(x) = \sin x^{10}$, then the derivative of $f(x) + g(x)$ is

Select the correct option

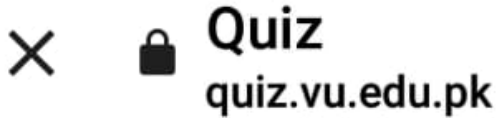
Refresh Math Equations

- | | |
|-----------------------|--------------------------------------|
| ☐ | None of these |
| ☐ | $\sec^2(x^2) + \cos x^{10}$ |
| ☐ | $2x \sec^2(x^2) + 10x^9 \cos x^{10}$ |
| ☐ | $2x \sec^2(x^2) + 10x^9 \cos x^{10}$ |

Click to Show Answer or Hide Answer

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BC180408165: HIRA ASGHAR

Time Left 89 sec(s)

MTH101:Quiz 1

Quiz Start Time: 10:12 PM, 25 June 2022

Question # 1 of 10 (Start time: 10:13:00 PM, 25 June 2022)

Total Marks: 1

Derivative of x w.r.t $\cos ex$ is

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|--------------------|
| ☐ | $-\sin x, \tan x$ |
| ☒ | $-\cos ex, \cot x$ |
| ☐ | $\cos ex, \cot x$ |
| ☐ | $\sin x, \tan x$ |

Click to Save Answer & Move to Next Question

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MTH101:Quiz 1

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Question # 5 of 10 (Start time: 10:06:56 PM, 25 June 2022)

Derivative of absolute value function:
 $f(x) = \text{Abs}(x) = |x|$ at $x = -2$ is

Select the correct option

- | | |
|----------------------------------|----------------|
| ☐ | zero |
| ☒ | does not exist |
| ☐ | -2 |
| ☐ | -1 |



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22:03



Quiz

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BC210409412: KHADIJA ASGHAR

Time Left 89 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:56 PM, 25 June 2022

Question # 7 of 10 (Start time: 10:01:48 PM, 25 June 2022)

Total Marks: 1

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

Select the correct option

☐	505 meter/min
☐	100 meter/min
☐	2500 meter/min
☐	25 meter/min

Click to Save Answer & Move to Next Question

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Question # 9 of 10 (Start time: 09:54:12 PM, 25 June 2022)

What is the derivative of $3\sec(x)$

Select the correct option

☐

$$3\ln(\sec(x) + \tan(x))$$

☐

None of these

☐

$$\sec^2(x)$$

☒

$$3\sec(x)\tan(x)$$

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9:40

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Question # 7 of 10 (Start time: 09:40:50 PM, 25 June 2022)

Value of x at which the derivatives of both functions $f(x) = \sin x$ and $g(x) = \cos x$ are equal, is(note: $\pi = 180$ degrees)

Select the correct option

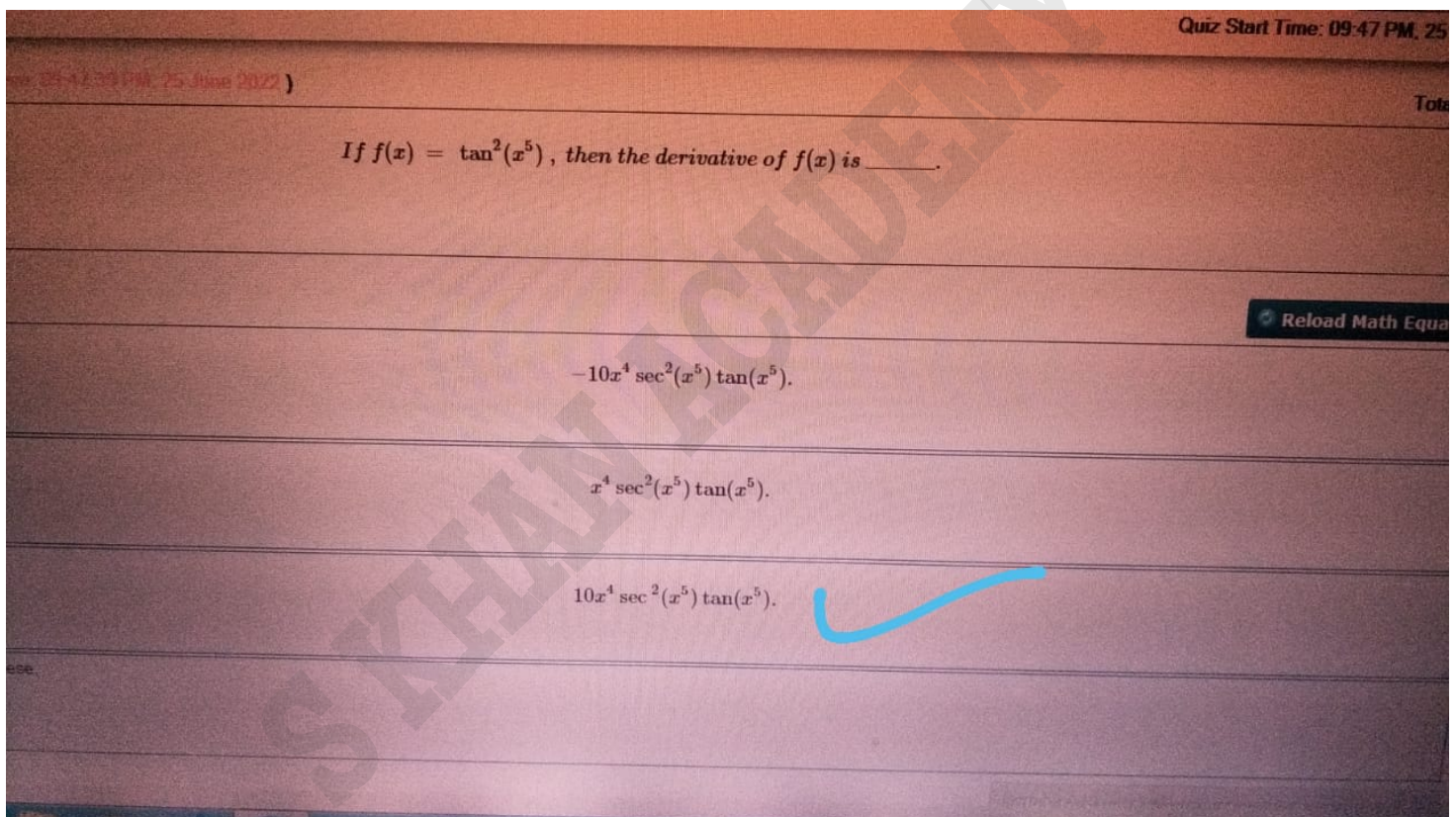
☒	$-\frac{\pi}{4}$
☐	$\frac{\pi}{2}$
☐	$\frac{\pi}{4}$
☐	0

Click to View Answer & Solution

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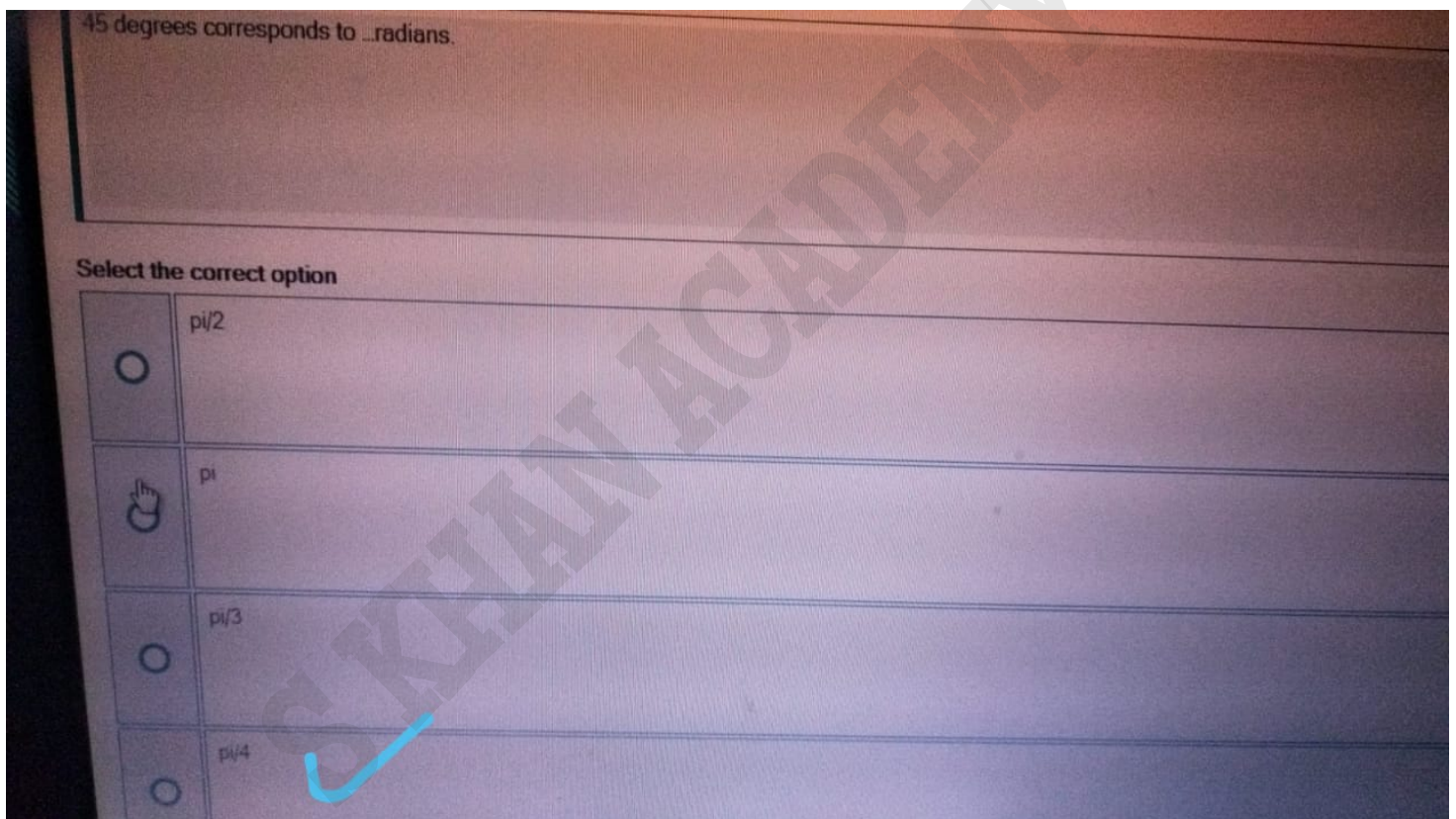


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The derivative of the difference is equal to the of the derivatives.

Select the correct option

☒	Sum
☐	Quotient
☐	Difference
☐	Product

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9:35

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MTH101-Quiz 1

Quiz Start Time: 09:34 PM, 25 June 20

Question # 2 of 10 (Start time: 09:35:55 PM, 25 June 2022)

Total Marks

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 |
| ☐ | -1/2 |
| ☒ | 2 |

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BC210425029: ABEEDA FATIMA

Time Left 90 sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:08 PM, 25 June 2022

Question # 8 of 10 (Start time: 09:15:47 PM, 25 June 2022)

Total Marks: 1

The derivative of ' $f(x) = \tan x - \cot x$ ' at ' $x = 0$ ' is -----

Select the correct option

- | | |
|----------------------------------|-----------|
| ☐ | 1 |
| ☐ | -1 |
| ☐ | -Infinity |
| ☒ | +infinity |

Click to Save Answer & Mark it as Question



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8:12 PM

VoLTE 9.8 K/s 92

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Quiz
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BC210205670: SHAMAS ALI

Time Left: 88 sec(s)

MTH101: Quiz 1

Quiz Start Time: 08:06 PM, 25 June 2022

Question # 5 of 10 (Start time: 08:12:05 PM, 25 June 2022)

Total Marks: 1

If $f(x) = x^2 \sin(2x)$, then the derivative of $f(x)$ is

Select the correct option

Reload Math Equations

☐	None of these.
☐	$2x^2 \cos(2x) + 2x \sin(2x)$
☐	$2x^2 \cos(x) + 2x \sin(2x)$
☐	$2x \cos(2x) + 2x \sin(2x)$

Click to View Answer & Discuss this Question

9:34

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quiz.vu.edu.pk/QuizQ



MTH101:Quiz 1

Quiz Start Time: 09:34 PM, 25 Jun

Question # 1 of 19 (Start time: 09:34:50 PM, 25 June 2022)

Total

Derivative of a straight line parallel to x-axis is——

Select the correct option

- | | |
|----------------------------------|----------|
| ☐ | +1 |
| ☐ | -1 |
| ☐ | Infinity |
| ☒ | Zero |

Click on (Next) button to move to Next Question

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YOUTUBE CHANNEL S KHAN ACADEMY



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8



BC210425998: SAJMA NOREEN

Time Left 87 sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:19 PM, 25 June 2022

Question # 1 of 10 (Start time: 09:19:28 PM, 25 June 2022)

Total Marks: 1

The process of finding the derivative is called_____

Select the correct option

- | | |
|----------------------------------|-----------------|
| ☐ | Function |
| ☒ | Differentiation |
| ☐ | Integration |
| ☐ | None of these |

Click to view answer & mark this question



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8



BC210425998: SAJMA NOREEN

Time Left 88 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:19 PM, 25 June 2022

Question # 4 of 10 (Start time: 09:22:04 PM, 25 June 2022)

Total Marks: 1

Derivative of $(y+1)w, r, t^3x^4$ is,

Select the correct option

Reload Math Equations

☐	1
☐	$\frac{dy}{dz}$ ✓
☐	Does not exist
☐	$\frac{dz}{dy}$

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Time Left 88 sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:19 PM, 25 June 2022

Question # 9 of 10 (Start time: 09:26:30 PM, 25 June 2022)

Total Marks: 1

$$d(5x+4)/dx=.....$$

Select the correct option

4



2



9



5



Click to view answers & marks for this question



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Time Left 88 sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:19 PM, 25 June 2022

Question # 8 of 10 (Start time: 09:25:35 PM, 25 June 2022)

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 .

Select the correct option

☐	30
☒	4
☐	10
☐	20

Click to view answers & marks for this question



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BC210425998: SAJMA NOREEN

Time Left 86 sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:19 PM, 25 June 2022

Question # 7 of 10 (Start time: 09:24:35 PM, 25 June 2022)

Total Marks: 1

If $f(x) = 1/x$, then which of the following is true about it.

Select the correct option

Its derivative with respect to x is $(1/x^2)$.

None of these.

Its derivative with respect to x is $(-x^2)$.Its derivative with respect to x is $(-1/x^2)$. ✓

Click to view answer & mark this question



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BC210425029: ABEEDA FATIMA

Time Left 89 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:08 PM, 25 June 2022

Question # 5 of 10 (Start time: 09:13:10 PM, 25 June 2022)

Total Marks: 1

The derivative of $\sec(3x)$ is

Select the correct option

- | | |
|----------------------------------|---------------------------------|
| ☐ | $\sec 3x \cdot \tan 3x$ |
| ☒ | $3 \cdot \sec 3x \cdot \tan 3x$ |
| ☐ | $3 \sec x \cdot \tan x$ |
| ☐ | $3 \sec 3x \cdot \tan x$ |

Click to Save Answer & Move to Next Question





BC210425029: ABEEDA FATIMA

Time Left 86 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:08 PM, 25 June 2022

Question # 4 of 10 (Start time: 09:11:34 PM, 25 June 2022)

Total Marks: 1

If $f(x) = \sec x^5$ and $g(x) = \tan(2x)$, then the derivative of $f(x) - g(x)$ is _____

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|--|
| ☐ | $\sec(x) + 2 \tan(x).$ |
| ☐ | $\sec x^4 \tan x^4 - 2 \sec^2(2x)$ |
| ☐ | $5 \sec x^5 \tan x^5 - 2 \sec^2(2x)$ |
| ☒ | $5x^4 \sec x^5 \tan x^5 - 2 \sec^2(2x).$ |

Click on Green Answer & Move to Next Question



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89%



22:24

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S K H A N A C A D E M Y



Quiz

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BC180408165: HIRA ASGHAR

Time Left

89

sec(s)

MTH101:Quiz 1

Quiz Start Time: 10:12 PM, 25 June 2022

Question # 6 of 10 (Start time: 10:22:28 PM, 25 June 2022)

Total Marks: 1

If $f(x) = 50 \cos x$, then $f'(x)$ at $x = \frac{\pi}{2}$ will be

Select the correct option

Reload Math Equations

☐	-90
☐	-25
☐	-40
☒	-50

Click to Save Answer & Move to Next Question

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BC210425029: ABEEDA FATIMA

Time Left 89 sec(s)

MTH101: Quiz 1

Quiz Start Time: 09:08 PM, 25 June 2022

Question # 3 of 10 (Start time: 09:10:25 PM, 25 June 2022)

Total Marks: 1

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 '

Select the correct option

☐	4
☐	5
☐	None of these
☒	6

Click to Save Answer & Mark it as Question





Quiz

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BC180408165: HIRA ASGHAR

Time Left 90 sec(s)

MTH101:Quiz 1

Quiz Start Time: 10:12 PM, 25 June 2022

Question # 9 of 10 (Start time: 10:28:16 PM, 25 June 2022)

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

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Quiz

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BC210409412: KHADIJA ASGHAR

Time Left 90
sec(s)

MTH101:Quiz 1

Quiz Start Time: 09:56 PM, 25 June 2022

Question # 1 of 10 (Start time: 09:56:34 PM, 25 June 2022)

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

Click to Save Answer & Move to Next Question

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