

MTH101

Quiz No.01

Quiz by Attiq Kundi

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MTH 101

Derivative of Graph of Straight line Bisecting the First and Third
Quadrants is....

+1

If $f(x) = x^3 + 1$, then which of the following is not True about it.

The Slope of tangent line at $x = 1$ is 3

If $f(x) = ax + bx + c$, then its derivatives with respect to x is.....

a+b

The Equation of tangent line at Point (x_0, y_0) is $y - y_0 = m(x - x_0)$

False

When the Slope of the Tangent line Approaches to $\pm$ infinity,
then.... Occurs

Circle

What is Derivative of $7x^3$

$21x^2$

Derivative of Straight line of Parallel to y-axis is.....

Zero

To Find the Slope of Tangent Line at a Particular point along a

Distance by Time Elapsed

If $f(x) = \cos(2x)$ then its derivatives By Chain Rules is -

$\sin(2x).2$

What is Derivatives of 101?

0

The Derivative of $y = \operatorname{cosec} x$ at $x=0$ is.....

Infinity

Curve, you Have to Calculate the

Instantaneous Velocity

Average Velocity is Obtained by Dividing the

Total

If $y = 5x + bx - c$, then Derivative w.r.t x is.....

$5 + b$

Let $f(x) = \cos(x)/6$ the Derivative of $f(x)$ is....

$-\sin x/6$

The Sum of Two Differentiable Functions is Always

Differentiable is

True

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If $f(x) = x^5$ and $g(x) = x^2$, Then the Derivative of $F(x)/g(x)$

is.....

$3x^2$

The Derivative of $\sin x \cdot \cos x$ at $x=0$ is.....

1

If $f(x) = 2x+2$ and $g(x) = x^2 + 3x$, the Derivative of $f(x) + g(x)$

is.....

$5 + 2x$

The Instantaneous rate of Change of y^2+4 with Respect to $x = 2$ is

4

What is Derivative of $2x^2 \sin(x^5)$?

None of these

What is Derivative of $\sin(20x)$?

$20\cos(20x)$

For the Curve $f(t) = -2t+3$, the Instantaneous Rate of Change of ' $f(t)$ ' at $t = 1$ is

-2

Let $f(x) = \cos(x)/6$, the Derivative of $f(x)$ is.....

$-\sin x/6$

If the Function is Differential at a Point, then it is also _____ at the Point.

Continuous

What is the Derivative $3\cot 2(x)$?

$-6\operatorname{cosec}^2(2x)$

Derivative of $\cos 4x$ By Using Chain Rule is.....

$-4\sin 4x$

What is The Derivative of $\sin(x)$ at $x = \sin(x)$ at $x = \pi/2$?

1

If $Y=x+1$ then Average rate of Change of 'y' w.r.t 'x' Over the

Interval $[1,5]$ will be.....

1

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The Function of $f(x) = f(x)$ is Differential at

$x=0$

False

$(f,g)' = f.g - f.g$

False

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

Time

Let $Y = x^2 + 1$ Then the Instantaneous rate of Change y with respect to x at point -2 is

3

If $f(x) = \cot(2x)$, then the Derivative of $f(x)$ is.....

$-2\csc^2(2x)$

If $f(x) = \sec(x)$ and $g(x) = \tan(2x)$, then the Derivative of $f(x) - g(x)$ is.....

$\sec(x) \tan(x) - 2\sec^2(2x)$

If $f(x) = \sin^4(x^2)$, then the Derivative of $f(x)$ is.....

None of these

A Differentiable Functions is always Continuous

True

A Function $f(x)$ is Differentiable on (a,b) if is Differentiable

at.....point in (a,b).....

Each

What is the Derivative of $\sin(x) + \cos(x)$?

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

What is the Derivative of $39x^{14/13}$

$42x^{1/33}$

Point slope from the tangent line is $y-3=6(x-3)$

$y=6x-15$

What is the Derivative of $2x+3x^2$

$4x+3$

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