MTH101 Online Quiz#01 Fall 2012

Iqra

Time Left **40** sec(s)

Quiz Start Time: 02:21 PM

Question # 1 of 10 (Start time: 02:21:12 PM)   **Total Marks:** 1

If $f(x) = \sec(x^5)$ and $g(x) = \tan(2x)$, then the derivative of $f(x) - g(x)$ is _____. NOTE:- where x^n denotes the nth power of x.

Select correct option:

○ $5\sec(x^5)\tan(x^5) - 2\sec^2(2x).$

○ $\sec(x^4)\tan(x^4) - 2\sec^2(2x).$

○ $\sec(x) + 2\tan(x).$

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

▶ Click here to Save Answer & Move to Next Question

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Time Left **45** sec(s)

Quiz Start Time: 02:21 PM

Question # 2 of 10 (Start time: 02:22:23 PM)   **Total Marks:** 1

At 'x = pi' , the derivative of ' $f(x) = a\cos x - b\sin x$ ' is------(note: pi=180 degrees)

Select correct option:

○ -a

○ a

○ -b

○ b

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Quiz Start Time: 02:21 PM

Question # 3 of 10 (Start time: 02:23:22 PM)   **Total Marks:** 1

The derivative of x^3+x^2 is………

► **Select correct option:**

○ 3x+2

○ 3x-2

○ 3x^2+2x

○ 3x^2-2x

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Question # 5 of 10 (Start time: 02:24:42 PM)   **Total Marks:** 1

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

▶ **Select correct option:**

○   Its derivative does not exists at x = -1.

○   Its derivative exists at x = -1

○   It has corner point at x = -1.

○   None of these

▶ Click here to Save Answer & Move to Next Question

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Time Left **55** sec(s)

Question # 6 of 10 (Start time: 02:25:46 PM)   **Total Marks:** 1

h(t) =cos(t+1) is a composition of two functions , one is 'Cos(t)' and second is……….

▶ **Select correct option:**

○   t+1

○   t

○ 0

○ 1

Click here to Save Answer & Move to Next Question

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Quiz Start Time: 02:21 PM

Question # 7 of 10 (Start time: 02:26:28 PM) **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 correct option:**

○ 30m/h

○ 40m/h

○ 50m/h

○ 60m/h

Click here to Save Answer & Move to Next Question

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Quiz Start Time: 02:21 PM

Question # 8 of 10 (Start time: 02:27:16 PM) **Total Marks:** 1

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

► **Select correct option:**

○ -4

○ 0

○ 3

○ -1

▶ Click here to Save Answer & Move to Next Question

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Time Left **46** sec(s)

Quiz Start Time: 02:21 PM

Question # 9 of 10 (Start time: 02:27:33 PM)   **Total Marks:** 1

Average velocity is the slope of.....line

▶ **Select correct option:**

○ Tangent

○ Secant

▶ Click here to Save Answer & Move to Next Question

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Time Left **61** sec(s)

Quiz Start Time: 02:21 PM

Question # 10 of 10 (Start time: 02:28:31 PM)   **Total Marks:** 1

The function f(x) = |x| is differentiable in the interval (-infinity, 0)

▶ **Select correct option:**

○ True

○ False

Click here to **S**ave Answer & Move to Next Question

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Time Left **57** sec(s)

Quiz Start Time: 12:17 PM

Question # 2 of 10 (Start time: 12:19:23 PM) **Total Marks: 1**

If the slope of a function is zero, then which of the following is true about it. NOTE:- where x^n denotes the nth power of x

Select correct option:

○ The function should be a constant.

○ The function should be a linear.

○ The function should be a quadratic.

○ None of these.

Click here to Save Answer & Move to Next Question

quiz.vu.edu.pk/QuizQuestion.aspx?ver=2f553ce5-10a4-43b5-b0fc-a6e009aa966d

Time Left **46** sec(s)

Quiz Start Time: 12:17 PM

Question # 3 of 10 (Start time: 12:20:44 PM) **Total Marks:** 1

f(x) = Cosx is differentiable in the interval

Select correct option:

○ (-inf,+inf)

○ (-inf, 0]

○ [0,+inf)

● All are true

Click here to Save Answer & Move to Next Question

quiz.vu.edu.pk/QuizQuestion.aspx?ver=f0efb35d-5099-432f-ac1a-9ceb67c6046f

Time Left **70** sec(s)

Quiz Start Time: 12:17 PM

Question # 5 of 10 (Start time: 12:22:53 PM) **Total Marks: 1**

d/dx (cosx) = _____

Select correct option:

○ sinx

○ -sinx

○ tanx

● -secx

Click here to Save Answer & Move to Next Question

quiz.vu.edu.pk/QuizQuestion.aspx?ver=f0efb35d-5099-432f-ac1a-9ceb67c6046f

Time Left **70** sec(s)

Quiz Start Time: 12:17 PM

Question # 5 of 10 (Start time: 12:22:53 PM)   **Total Marks:** 1

d/dx (cosx) = _____

Select correct option:

○ sinx

○ -sinx

○ tanx

◉ -secx

Click here to Save Answer & Move to Next Question

Time Left **2** sec(s)

Quiz Start Time: 12:17 PM

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

Select correct option:

○ -4

○ 0

◉ 3

○ -1

▶ Click here to Save Answer & Move to Next Question

quiz.vu.edu.pk/QuizQuestion.aspx?ver=292e68cd-2921-4114-9e71-8571f7f597e2

Time Left **43** sec(s)

Quiz Start Time: 12:17 PM

Question # 7 of 10 (Start time: 12:24:56 PM) **Total Marks: 1**

If ´x=f(-3y)´ and ´y=2x´ then df/dx = ———

Select correct option:

○ 6

○ -6

◉ -1/6

○ -6

▶ Click here to Save Answer & Move to Next Question

quiz.vu.edu.pk/QuizQuestion.aspx?ver=97c5392c-3a78-4f8c-b043-e486a8b383f5

Time Left **30** sec(s)

Quiz Start Time: 12:17 PM

Question # 9 of 10 (Start time: 12:26:50 PM) **Total Marks: 1**

Derivative of 'x' with respect to 'Cosecx' is——.

Select correct option:

○ -Sinx.Tanx

⊙ Sinx.Tanx

○ -Cosecx.Cotx

○ Cosecx.Cotx

▶ Click here to Save Answer & Move to Next Question

Time Left **73** sec(s)

Quiz Start Time: 12:17 PM

The derivative of a variable with respect to itself is equal to ....

Select correct option:

🔘 0

⭕ 1

⭕ 8

⭕ 2

Click here to Save Answer & Move to Next Question