

MTH101 Online Quiz#01 Fall 2012

Iqra

Quiz Start Time: 02:21 PM

Time
Left

40
sec(s
)

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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Quiz Start Time: 02:21 PM

Time
Left

45
sec(s
)

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

Time
Left

64
sec(s
)

Question # 3 of 10 (Start time: 02:23:22 PM)

Total Marks: 1

The derivative of x^3+x^2 is.....

▶ Select correct option:

- ☐ $3x+2$
- ☐ $3x-2$
- ☐ $3x^2+2x$
- ☐ $3x^2-2x$



Click here to Save Answer & Move to Next Question

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Quiz Start Time: 02:21 PM

Time
Left

35
sec(s
)

Question # 5 of 10 (Start time: 02:24:42 PM)

Total Marks: 1

If $f(x) = \text{Absolute}(x + 1)$, then which of the following is NOT true about it. NOTE:- where x^n denotes the n th 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



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Quiz Start Time: 02:21 PM

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

Time
Left

55
sec(s
)

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

Time
Left

79
sec(s
)

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

☐



Click here to Save Answer & Move to Next Question

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Quiz Start Time: 02:21 PM

Time
Left

46
sec(s
)



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

Total Marks: 1

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



Select correct option:

☐

☐



Click here to Save Answer & Move to Next Question

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Quiz Start Time: 02:21 PM

Time
Left

61
sec(s
)

Question # 10 of 10 (Start time: 02:28:31 PM)

Total Marks: 1

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

▶ Select correct option:

- ☐ True
- ☐ False



Click here to Save Answer & Move to Next Question

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MTH 101 QUIZ NO 1 Fall 2012

Quiz - Google Chrome

quiz.vu.edu.pk/QuizQuestion.aspx?ver=28730fc5-267d-444d-b725-de2c6ab8e893

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 n th 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 - Google Chrome

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

$f(x) = \cos x$ is differentiable in the interval

Select correct option:

☐

☐

☐

☒

Click here to Save Answer & Move to Next Question

Quiz - Google Chrome

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 - Google Chrome

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 - Google Chrome

quiz.vu.edu.pk/QuizQuestion.aspx?ver=7156c49f-722b-4bee-984d-9adda7c523a3

Time Left 2 sec(s)

Quiz Start Time: 12:17 PM

Question # 6 of 10 (Start time: 12:23:26 PM) Total Marks: 1

Lety = $x^2 + 1$ 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 - Google Chrome

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☒☐

Click here to Save Answer & Move to Next Question

Quiz - Google Chrome

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

Quiz - Google Chrome

quiz.vu.edu.pk/QuizQuestion.aspx?ver=f5657414-5cce-46fd-8291-146ef4e92c40

Time Left 73 sec(s)

Quiz Start Time: 12:17 PM

Question # 10 of 10 (Start time: 12:27:52 PM) Total Marks: 1

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