MTH101 - SOLVED Online Quiz No.2 Fall 2013

1.If Sin(3x^2) / 6 + C is the anti–derivative of a function f(x), then f(x) = _____.

x^2 Cos(3x^2).

x Cos(3x^2).

x Cos(3x).

none

2.Which of the following is the integral of Sin(3x+5) with respect to x ?

-1/3[-Cos(3x+5)]

1/3[-Cos(3x+5)]

1/15[-Cos(3x+5)]

-Cos(3x+5)

3.If ‘n’ goes from 1 to 3 and the summation of ‘na’ = 6a, then the value of ‘a’ is ----------

6

-6

1

undetermined

4.If ‘n’ goes from 1 to any large ODD number then the summation of ‘(-1)^n’ = ---------

-1

0

1

that specific large ODD number

5.1+2+3……+t equals

n(n+1)/2

t(t+1)/2

n(n+1)(2n+1)/6

none

6.If definite integral of f(x)=Sinx over [a,0] is equal to ‘-2’ then the value ‘a’ is---------

pi/2

pi

0

-pi

7.If the definite integral of f(x)=3 over [1,x] is greater than ‘12’ then -----

x>12

x>5

x>3

x>1

8.If [-8,8] is subdivided into '16' equally spaced subintervals, then the RIGHT end point of 13th sub-interval will be--------.

2

3

4

5

9.Which of the following is the integral of sin(2x)?

cos(2x)+C

2cos(2x)+C

–(1/2)cos(2x)+C

none

10.Sum of cubes of n-terms of a series whose nth term is 'n' = ---

Square of n(n+1)(2n+1)/6

Square of n(n+1)/2

Square of (n+1)/2 (just a guess)

Square of n(n+1)/6

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Area of a rectangle whose width is 5 units and length is 6 units will be ….
Select correct option:

11 units

22 units

30 units

75

Quiz Start Time: 08:58 PM Time Leftsec(s)

Question # 2 of 10 (Start time: 08:59:55 PM) Total Marks: 1

1+2+3…….+1000 equals -------
Select correct option:

1000

3000

500500

None of these

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Quiz Start Time: 08:58 PM Time Leftsec(s)
Question # 3 of 10 (Start time: 09:01:17 PM) Total Marks: 1
Integration of 4Cosx with respect to x is……..
Select correct option:

4Sinx

- 4Sinx

85

Quiz Start Time: 08:58 PM Time Leftsec(s)
Question # 4 of 10 (Start time: 09:02:47 PM) Total Marks: 1
If Newton's Method succeeded to get the approximate solution of an equation, then which of the following is NOT true about it.
Select correct option:

The slope of the tangent line (at any approximated point) must be non zero.

The tangent line (at any approximated point) is not parallel to x-axis.

The sequence of approximated points not convergent to the exact solution

None of these.

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Quiz Start Time: 08:58 PM Time Leftsec(s)
Question # 5 of 10 (Start time: 09:04:16 PM) Total Marks: 1
Integral of (1-2x) from [0,1] is ……..
Select correct option:

1

2

0

3

78

Quiz Start Time: 08:58 PM Time Leftsec(s)
Question # 6 of 10 (Start time: 09:05:21 PM) Total Marks: 1
If f(x) = Cos(x) + x, then which of the following is NOT true about it.
Select correct option:

Its anti – derivative is Sin(x) + x^2/2 + 4.

Its anti – derivative is Sin(x) + x^2/2 + 6.

Its anti – derivative is Sin(x) + x^2/2 + 10.

Its anti – derivative is -Sin(x) + x^2/2 + 4.

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Quiz Start Time: 08:58 PM Time Leftsec(s)
Question # 7 of 10 (Start time: 09:06:54 PM) Total Marks: 1
Integral of 5^2 is NOTE: x^n means ‘x’ to the power ‘n’
Select correct option:

(1/3)5^3

10

25x

None of these
Bottom of Form

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Quiz Start Time: 08:58 PM Time Leftsec(s)
Question # 8 of 10 (Start time: 09:08:19 PM) Total Marks: 1

In the indefinite integral of x(y^2) w.r.t ‘y’ , the term ….. serve to identify the independent variable in the function.
Select correct option:

X

Y

dy

y^2

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Quiz Start Time: 08:58 PM Time Leftsec(s)
Question # 10 of 10 (Start time: 09:11:20 PM) Total Marks: 1
If f(x) = Sin (5x), then which of the following is NOT true about it.
Select correct option:

Its anti – derivative can be

–Cos (5x) + 3

Its anti – derivative can be

–Cos (5x) / 5 + 4.

Its anti – derivative can be

–Cos (5x) / 5 + 6.

Its anti – derivative can be

–Cos (5x) / 5 + 10.