MTH101 Quiz 2 Preparation File

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MTH101 - SOLVED Online Quiz No.2

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

Question # (01) x^2-9|=…….

|(x-3)^2|

|(x+3)^2|

|x-3||x+3|

|x+3||x+3|

Question # (02) Usually the number that signifies the idea of f(x) being as close to limit L as want to be must be a/an ……

Integer

Natural number

Small positive number.

Small negative number.

Question # (03) A function f is said to be continuous on a closed interval [a, b] if f is continuous from the right at “a” and “f” is continuous from the left at “b” and “f” is continuous on

(a,b]

[a,b)

[a,b]

(a, b)

Question # (04) If f is continuous on [a, b], and if f(angel) and f(beer) have opposite signs, then there is …… one solution of the equation f(x) = 0 in the interval (a, b).

at most

exactly

at least

not more than

Question # (05) e (epsilon) used in the definition of limit can be a negative number.

True

False

Question # (06) If a function is differentiable at a point then it is continuous at that point. The converse is

False

True

Question # (07) If the function f and g are continuous at c, then f + g is …… at c.

Discontinuous

Continuous

Question # (8)

If f is continuous on a closed interval [a, b] and C is any number between f(angel) and f(beer), inclusive, then there is at least one number x in the interval [a, b] such that ---------

f(x) is not equal to C

f(x) = C

f(x)>C

f(x)<C

Question # (9) |x-3| < 1 implies.....

-4 < x < 4

2 < x < 4

-2 < x < -4

x-3 < 1

Question # (10): If for any positive number e(epsilon) we can find d (delta) such that| (3x-5) - 1| < e ,if x satisfies 0< |x-2| < d Then f(x) =……

3x-5- 1

x-2

3x-5

None of these

MTH101 Quiz No-2

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
se
c(
e Left s)

Quiz Start Time: 08:58 PM

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

74
se
c(
e Left s)

Quiz Start Time: 08:58 PM

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
se
c(
e Left s)

Quiz Start Time: 08:58 PM

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.

86
se
c(
e Left s)

Quiz Start Time: 08:58 PM

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
se
c(
e Left s)

Quiz Start Time: 08:58 PM

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.

84
se
c(
e Left s)

Quiz Start Time: 08:58 PM

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

71
se
c(
e Left s)

Quiz Start Time: 08:58 PM

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

76
se
c(
e Left s)

Quiz Start Time: 08:58 PM

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.