**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

|  |
| --- |
| **MTH101 Quiz No-2 Fall 2013**  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 |
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