**Dca6103 – FOUNDATION OF mathematics**

**SET I**

1. **Find the value of *a* if the function f(x) defined by**

****

**is continuous at **

**Sol:**

****

1. **Ifprove that.**

**Sol:**

Differentiating both sides w.r.t *x*

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1. **Evaluate the following integral**

****

**Sol:**cos2= 2cos2

**SET II**

1. **Solve the following system of equations by Matrix Method**

****

**Sol:**

1. **(a) Find the and  if**

**Sol:**

=

⇒ =

**(b) Find  if at the point (1, -2, -1)**

**Sol:**

**(a) Find the values of a and b such that the function  is analytic. Also find **

**(b) If , determine  so that is analytic function of x+iy.**