**SESSION JAN/FEB 2022**

**PROGRAM MASTER OF COMPUTER APPLICATIONS (MCA)**

**SEMESTER I**

**COURSE CODE & NAME DCA6103– FUNDATION OF MATHEMATICS**

**Q1 If the function**

**is continuous at then find the value of k.**

**Solution1:**

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***Q2 If show that***

**Solution2:**

***Q3 Evaluate the following integral***

**Solution 3:**

Evaluate

**Q4. *Solve the following system of equations by Matrix Method***

**Solution 4:**

x + y + 0z =0

0x + y + z =1

x + 0y + z =3

Converting to matrix

**Q5. (a) Prove that (x,y,z)= + is irrotational.**

***(b). If + at tan then find***

**Solution 5 a:**

To check for the vector to be rotational or not curl F =0

**Solution 5b:**

**Q6.**

1. **Show that the given function is not analytic at any point**

***b. If Prove that***

**Solution 6a:**

f (z) = y + ix

F(z) = u + iv

**Solution 6b:**