**Assignment**

**DCA1103 – Basic MATHEMATICS**

**Set- Ist**

**1. Find the identity and inverse elements for the binary operation**

**Solution:**

Its Half solved only

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**2. If the function**

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

**Solution:** For the function f(x)  to continuous at x=5

We must have, x→5−lim​f(x)=x→5+lim​f(x)=f(5)

⇒x→5lim

**3. a (a). If then prove that**

**b *Prove that***

## Solution:

## LHS : sinA+sin3A​/cosA+cos3A

## ⇒

**Set- IInd**

4. **(a). Test for divergence of the following series:**

**(b) Test the convergence of the series**

**Solution:** Consider the given series as:

**5. Define differential equation and solve**

## Solution: Consider the problem

## Y^2 dx+(3xy−1)dy=0

## Y^2dx=(1−3xy)dy

## dx/dy

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

**Solution**: The given systems of equations are:

x+y =0

y+z