

**4MM013 - Computational Mathematics**

Mathematics Assignment-1

Full Marks: 10

University ID :

Submitted by :

Submitted on :

1. State the definition of a function and a composite function. **[2Marks]**

Let and be functions defined as follows:

, and

,

Calculate ( and

1. Solve the following using the inverse matrix method: **[ 2 Marks]**
2. Calculate the inverse of the following functions: **[ 2 Marks]**
3. Sketch the graph of the following functions. **[ 2 Marks]**

In the interval of x=0.5 and state domain and range of the function.

* 1. Define gradient of a function. State the gradient and intercept of :

**[2 Marks]**

* 1. Solve the following equations:

**The End**