MA2033-Linear Algebra-L2S4-2013/14-www.math.mrt.ac.Ik/UCJ-20140419-Test1-Solutions

1. Let $G$ be the set of invertible functions. Define the composition operation for $f, g \in G$ by $(f \circ g)(x)=f(g(x))$. Is ( $G, \circ$ ) a group?

## Solution:

These topics will not be tested at the final.

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2. Let $G$ and o be defined as in question 1. Define the addition operation for $f, g \in G$ by $(f \# g)(x)=f(x)+g(x)$. Is ( $G, \#, \circ$ ) a Field?

## Solution:

These topics will not be tested at the final.

