MA2033-Linear Algebra-L2S4-2013/14-www.math.mrt.ac.lk/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 \circ 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.