

Math 6020, Graduate Algebra, Fall 2024, Homework 0

Instructor: Danny Krashen

Discussing the problems with other people is encouraged,
but you must write up your own work independently!

This is just a practice homework assignment to make sure we all can properly use the gradescope system!

1. Which do you prefer:

1. groups
2. rings
3. fields
4. groupoids
5. categories
6. something else (specify)
7. refuse to answer this question

2. Show that if G and H are groups and if $f : G \rightarrow H$ is a map of sets such that $f(ab) = f(a)f(b)$ for every $a, b \in G$, then we also have $f(e) = e$ where e denotes the identity element(s) of G and H respectively.