

Math 422: Abstract Algebra II
Homework 4, Due Friday, February 29

- Do the following problems from the text.
 - Chapter 10: # 7, 15, 19, 20, 39, 40, 50.
- An abelian group Q is *injective* if whenever Q is a subgroup of an abelian group M , then M has a subgroup H such that $M = Q \times H$ (there is a mistake in the definition given on the last assignment).

Find an example of a nontrivial injective group.