

Algebra Tier I Exam
August 2010

1. Find all irreducible monic quadratic polynomials in $\mathbb{Z}_3[x]$.
(*Monic: coefficient of the highest power of x is one.*)
2. Let G be a finite group and $\Phi : G \rightarrow G$ an automorphism.
 - (a) Show that Φ maps a conjugacy class of G into a conjugacy class of G .
 - (b) Give a concrete example of non-trivial G and Φ such that $\{e\}$ is the only conjugacy class of G that Φ maps into itself. Explain.
 - (c) Show that if $G = S_5$ (the symmetric group on five letters), then g and $\Phi(g)$ must be conjugate for any $g \in G$.
3. Let V and W be real vector spaces, and let $T : V \rightarrow W$ be a linear map. If the dimensions of V and W are 3 and 5, respectively, then for any bases B of V and B' of W , we can represent T by a 5×3 matrix $A_{T,B,B'}$. Find a set S of 5×3 matrices as small as possible such that for any $T : V \rightarrow W$ there are bases B of V and B' of W such that $A_{T,B,B'} \in S$.
4. Is it possible to find a field F with at most 100 elements so that F has exactly five different proper subfields? If so, find all such fields. If not, prove that no such field F exists.
5. Let G be the group of rigid motions (more specifically, rotations) in $\mathbb{R}^3$ generated by $x =$ a 90° degree rotation about the x -axis, and $y =$ a 90° degree rotation about the y -axis.
 - (a) How many elements does G have?
 - (b) Show that the subgroup generated by x^2 and y^2 is a normal subgroup of G .
6. In this problem, R is a finite commutative ring with identity. Define $a \in R$ to be *periodic of period k* if $a, a^2, \dots, a^k$ are all different, but $a^{k+1} = a$.
 - (a) In $R = \mathbb{Z}_{76}$, find an element $a \neq 0, 1$ of period 1.

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