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Order In Abelian Groups - University Of Hawai'i

Order Of A Product In An Abelian Group. The first issue we shall address is the order of a product of two elements of finite order. Suppose G is a group and $a, b \in G$ have orders m and n respectively. What can be said about ab ? Let's consider some examples.

Fundamental Theorem Of Finitely Generated Abelian Groups

Kevin James Fundamental Theorem Of Finitely Generated Abelian Groups. Corollary If N is the product of distinct primes and G is an abelian group of order N , then $G \cong \mathbb{Z}_N$. Theorem Let G be an abelian group of order $N > 1$ and let the unique factorization of N into distinct prime powers be given by $N = p_1^{a_1} p_2^{a_2} \dots p_k^{a_k}$. Then, $G \cong \mathbb{Z}_{p_1^{a_1}} \times \mathbb{Z}_{p_2^{a_2}} \times \dots \times \mathbb{Z}_{p_k^{a_k}}$.

Rational Invariants Of Finite Abelian Groups

Rational Invariants Of Finite Abelian Groups (1) Given finite, abelian group $G \leq GL(n; K)$ acting on K^n -construct rational invariants of action. Rational invariant: $f \in K(x) : f(Gx) = f(x)$. (2) Given system of polynomial equations-if have group action then 'reduce' polynomial system.

Rational Invariants Of Meta-abelian Groups Of Linear ...

Rational Invariants Of Meta-abelian Groups Of Linear Automorphisms* MOWAFFAQ HAJJA Yarmouk University, Irbid, Jordan
Communicated By R. G. Swan Received April 6, 1981 INTRODUCTION Let K be an algebraically closed field of characteristic zero, G a finite group and V a finite-dimensional KG -module.

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2. Preliminary Results And Notation Let V be a group of operators acting on a group G . The following subgroups of G are of interest: $G_V = \{g \in G, V(g) = g \text{ for all } V \in V\}$ (V, G) the subgroup generated by $\{v(g)g^{-1} : V \in V, g \in G\}$ $R(G)$ the intersection of all

Maximal V -invariant Subgroups Of G . If W