

## FINITELY GENERATED ABELIAN GROUPS AND SIMILARITY OF MATRICES OVER A FIELD%0A

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Finitely generated abelian groups and similarity of matrices over a field 1. 2 Basic Theory of Additive Abelian GroupsIn this chapter we discuss cyclic groups, the quotient group construction, the directsum construction and the rst isomorphism theorem, in the context of additive abeliangroups; we also discuss free modules.  
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At first sight, finitely generated abelian groups and canonical forms of matrices appear to have little in common. However, reduction to Smith normal form, named after its originator H.J.S.Smith in 1861, is a matrix version of the Euclidean algorithm and is exactly what the theory requires in both cases. Starting with matrices over the integers, Part 1 of this book provides a measured introduction to such groups; two finitely generated abelian groups are isomorphic if and only if their  
Finity generated abelian group - Wikipedia

Every subgroup and factor group of a finitely generated abelian group is again finitely generated abelian. The finitely generated abelian groups, together with the group homomorphisms, form an abelian category which is a Serre subcategory of the category of abelian groups. Non-finitely generated abelian groups

**F[x]-Modules: Similarity of  $n \times n$  Matrices over a Field ...**

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**Free abelian group - Wikipedia**

As every finitely generated abelian group is the quotient of a finitely generated free abelian group by a submodule, the fundamental theorem of finitely generated abelian groups is a corollary of the above result. Torsion and divisibility

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We will prove the theorem as follows. We first remark that any subgroup of a finitely generated free abelian group is finitely generated. Then we see that finitely generated abelian groups can be presented as quotients of finite rank free abelian groups, and such a presentation can be reinterpreted in terms of matrices over the integers.

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**FINITELY-GENERATED ABELIAN GROUPS**

**Structure Theorem for ...**

Structure Theorem for Finitely-Generated Abelian Groups. Let  $G$  be a nitely-generated abelian group. Then there exist a nonnegative integer  $t$  and (if  $t > 0$ ) integers  $1 < d_1 | d_2 | \dots | d_t$ , a nonnegative integer  $r$  such that  $G$  takes the form  $G \cong \mathbb{Z}^r \oplus \mathbb{Z}/d_1\mathbb{Z} \oplus \mathbb{Z}/d_2\mathbb{Z} \oplus \dots \oplus \mathbb{Z}/d_t\mathbb{Z}$ . The integers  $d_1, \dots, d_t$  are called the elementary divisors of  $G$ . The nonnegative integer  $r$  is called the rank of  $G$ . The elementary

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