

Finitely Generated Abelian Groups

Def. The **cartesian product** of sets S_1, \dots, S_n is the set of all ordered n -tuples (a_1, \dots, a_n) , where $a_i \in S_i$ for $i = 1, 2, \dots, n$. We write:

$$S_1 \times S_2 \times \dots \times S_n \text{ or } \prod_{i=1}^n S_i$$

Theorem: Let G_1, G_2, \dots, G_n be groups. For (a_1, a_2, \dots, a_n) and (b_1, b_2, \dots, b_n) in $\prod_{i=1}^n G_i$

define $(a_1, a_2, \dots, a_n)(b_1, b_2, \dots, b_n) = (a_1 b_1, a_2 b_2, \dots, a_n b_n)$.

Then $\prod_{i=1}^n G_i$ is a group, the **direct product of the groups G_i** , under this multiplication.

Proof: The $\prod_{i=1}^n G_i$ is closed under this multiplication and the multiplication is associative because each component is.

(e_1, e_2, \dots, e_n) is the identity element of $\prod_{i=1}^n G_i$, where e_i is the identity element of G_i .

$(a_1^{-1}, a_2^{-1}, \dots, a_n^{-1})$ is the inverse of (a_1, a_2, \dots, a_n) .

When all of the G_i 's are abelian groups, additive notation is sometimes used and $\prod_{i=1}^n G_i$ is referred to as the **direct sum** of the groups G_i and is written $G_1 \oplus G_2 \oplus \dots \oplus G_n$. The direct product (or sum) of abelian groups is also abelian.

Notice that if $|G_i| = r_i$ for $i = 1, \dots, n$ then $|\prod_{i=1}^n G_i| = (r_1)(r_2) \dots (r_n)$.

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Rachel S Tattersall



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