Why

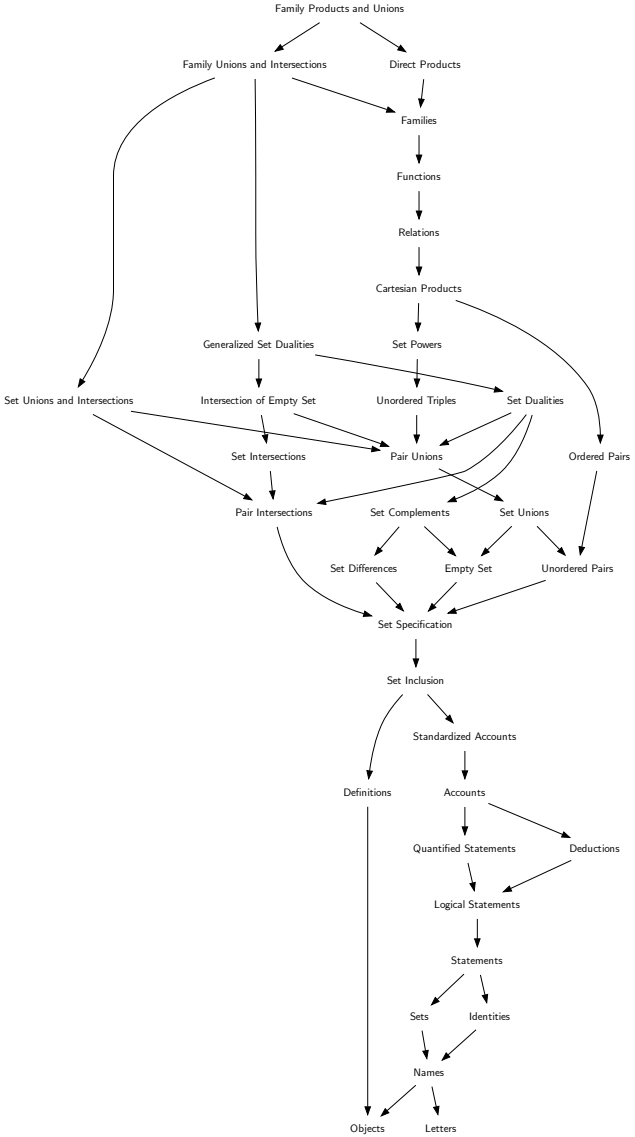
We study how family unions and direct products interact.

ßResult

The following is easy.[1]

Proposition 1. $(\cup_i A_i) \times (\cup_j B_j) = \cup_{i,j}(A_i \times B_j)$.

[1] An account will appear in future editions.


Family Products and Unions
Family Unions and Intersections
Direct Products
Families
Functions
Relations
Cartesian Products
Generalized Set Dualities
Set Powers
Set Unions and Intersections
Intersection of Empty Set
Unordered Triples
Set Dualities
Set Intersections
Pair Unions
Ordered Pairs
Pair Intersections
Set Complements
Set Unions
Set Differences
Empty Set
Unordered Pairs
Set Specification
Set Inclusion
Standardized Accounts
Definitions
Accounts
Quantified Statements
Deductions
Logical Statements
Statements
Sets
Identities
Names
Objects
Letters