## Why

[1]

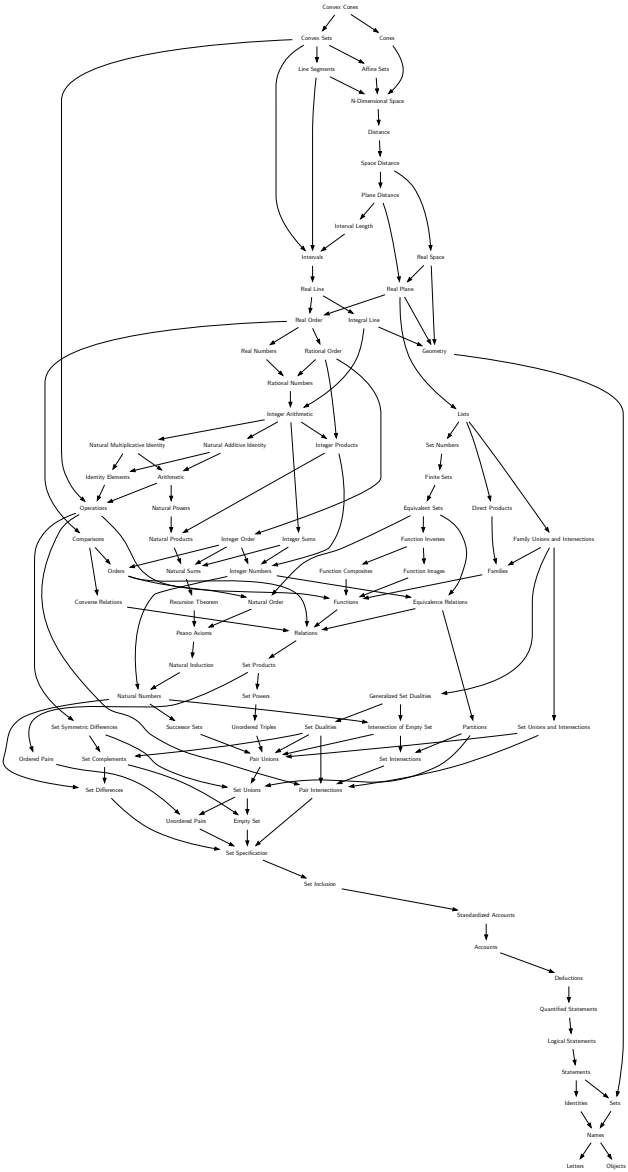
## Definition

A *convex cone* is a cone which is a convex set. A cone $A \subset \mathbf{R}^d$ is pointed if $x, -x \in A \longrightarrow x = 0$.[2]

**Prop. 1.** *The intersection of a family of convex cones is convex.*

[1] Future editions will include.

[2] This definition is provisional, and may be changed in future editions.


Convex Cones
Convex Sets
Cones
Line Segments
Affine Sets
N-Dimensional Space
Distance
Space Distance
Plane Distance
Interval Length
Intervals
Real Space
Real Line
Real Plane
Real Order
Integral Line
Geometry
Real Numbers
Rational Order
Rational Numbers
Integer Arithmetic
Lists
Natural Multiplicative Identity
Natural Additive Identity
Integer Products
Set Numbers
Identity Elements
Arithmetic
Finite Sets
Operations
Natural Powers
Equivalent Sets
Direct Products
Comparisons
Natural Products
Integer Order
Integer Sums
Function Inverses
Family Unions and Intersections
Orders
Natural Sums
Integer Numbers
Function Composites
Function Images
Families
Converse Relations
Recursion Theorem
Natural Order
Functions
Equivalence Relations
Relations
Peano Axioms
Natural Induction
Set Products
Natural Numbers
Set Powers
Generalized Set Dualities
Set Symmetric Differences
Successor Sets
Unordered Triples
Set Dualities
Intersection of Empty Set
Partitions
Set Unions and Intersections
Ordered Pairs
Set Complements
Pair Unions
Set Intersections
Set Differences
Set Unions
Pair Intersections
Unordered Pairs
Empty Set
Set Specification
Set Inclusion
Standardized Accounts
Accounts
Deductions
Quantified Statements
Logical Statements
Statements
Identities
Sets
Names
Letters
Objects