Why

TODO Example of split graphs.

Definition

A *threshold graph* is an undirected graph for which there exists a real-valued function on the vertex set whose sum of results on two vertices is positive if and only if the vertices are adjacent in the graph.

Threshold Graphs

Real Functions
Split Graphs

Intervals
Chordal Graphs
Partitions

Absolute Value
Undirected Paths

Real Numbers
Length
Natural Differences
Undirected Graphs

Rational Numbers
Natural Sums
Finite Sets

Integer Numbers
Direct Products
Equivalent Sets
Set Operations

Zero
Natural Families
Natural Order
Equivalence Relations
Function Inverses
Algebras

Equation Solutions
Families
Natural Numbers
Function Composites
Injective Functions
Surjective Functions
Operations
Set Symmetric Differences

Functions
Set Intersections
Set Unions

Relations
Set Complements

Equations
Ordered Pairs

Empty Set
Unordered Pairs

Power Set
Set Specification

Set Inclusion

Set Equality
Sentences

Identity
Standardized Accounts
Sets

Accounts

Deductions
Quantified Statements

Logical Statements

Statements

Objects