**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

Intervals

Split Graphs

Real Line

Chordal Graphs

Real Order

Trees

Undirected Subgraphs

Integral Line

Real Numbers

Rational Order

Undirected Paths

Integer Divisors

Rational Numbers

Lists

Undirected Graphs

Integer Arithmetic

Set Numbers

Natural Multiplicative Identity

Natural Additive Identity

Integer Products

Finite Sets

Identity Elements

Arithmetic

Direct Products

Equivalent Sets

Natural Powers

Family Unions and Intersections

Function Inverses

Comparisons

Integer Order

Integer Sums

Natural Products

Families

Operations

Function Images

Function Composites

Orders

Integer Numbers

Natural Sums

Functions

Equivalence Relations

Converse Relations

Natural Order

Recursion Theorem

Partitions

Relations

Peano Axioms

Set Products

Natural Induction

Generalized Set Dualities

Set Powers

Natural Numbers

Set Unions and Intersections

Intersection of Empty Set

Set Dualities

Unordered Triples

Successor Sets

Set Symmetric Differences

Ordered Pairs

Set Intersections

Pair Unions

Set Complements

Pair Intersections

Set Unions

Set Differences

Empty Set

Unordered Pairs

Geometry

Set Specification

Set Equality

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Sets

Identities

Names

Letters

Objects