Definition

An undirected graph (V, E) is *bipartite* (a *bipartite graph*) if there is a partition $\{A, B\}$ of V so no two vertices in A are adjacent and no two vertices in B are adjacent.

Proposition 1. *A bipartite graph has no odd cycles.*

Bipartite Graphs

Undirected Graphs

Set Numbers

Finite Sets

Equivalent Sets

Natural Order

Function Inverses

Function Composites

Function Images

Equivalence Relations

Functions

Peano Axioms

Relations

Natural Induction

Ordered Pair Projections

Set Products

Natural Numbers

Set Powers

Intersection of Empty Set

Successor Sets

Unordered Triples

Pair Unions

Partitions

Ordered Pairs

Set Differences

Set Intersections

Set Unions

Pair Intersections

Empty Set

Unordered Pairs

Set Specification

Set Equality

Set Inclusion

Deductions

Quantified Statements

Logical Statements

Statements

Identities

Sets

Names

Letters

Objects