



K-Trees

1 Why

They are an example of a chordal graph. They generalize trees.

2 Definition

A k -tree is an undirected graph with at least k vertices. The only k -tree with k vertices is the complete graph.

3 Chordality

Proposition 1. *All k -trees are chordal.*

Proof. Induction on k -tree with k vertices.

□



