LECTURE 1

Author

Tom Jeong

August 20, 2024

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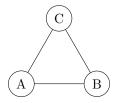
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1 Graph Theory Basics

A graph is a mathematical object consisting of:

- 1. vertices
- 2. edges which is a pair of vertices

Typically, we represent vertices as dots and edges as line segments that joins two dots. e.g. G = (V, E) where V is a set of vertices and E is a set of edges. drawing a graph using tikz:



Given a graph G we'll denote its vertex set by V(G) and its edge set by E(G).