

Unit - IV Graph Theory

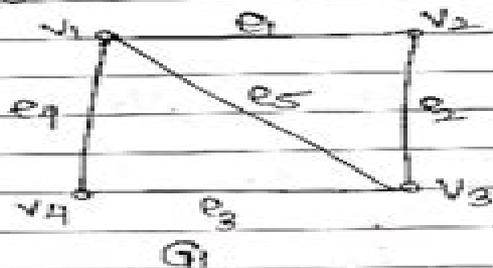


6.2. Basic terminology of a graph.

- A graph is simply a collection of points, called 'vertices' and a collection of lines, called 'Edges' each of which joins either a pair of points or a single point to itself.

Mathematically a graph G is an ordered pair (V, E) where V is the set of vertices & E is the set of edges. Each edge e_{ij} is associated with an unordered pair of vertices (v_i, v_j) . The vertices v_i and v_j are called end vertices or terminal vertices of the edge e_{ij} or simply the

edge e .



In above graph there are four vertices namely v_1, v_2, v_3 & v_4 & five edges e_1, e_2, e_3, e_4 & e_5 .

The end vertices of edge e_1 are v_1 & v_2 .

i.e.,

$$e_1 = (v_1, v_2).$$

Lecture Notes In Graph Theory Kit

AW Rasmussen



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