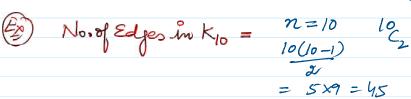
No. of Edges in a Complete graph with n Vertices (Kn) =

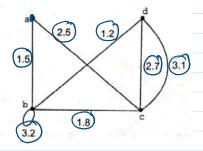


$$n=2$$
 K_2 No. of Edges = ${}^2C_2 = 1$

$$n=3$$
 k_3 l_1 l_2 = 3

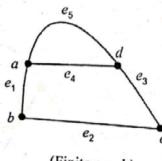
$$n=y$$
 K_y N_y N_y

(iv) Weighted graph: Let G = (V, E) be any graph and $\omega : E \rightarrow R$ be a function from edge set E to set real numbers R. Then the graph $G = (V, E, \omega)$ in which each edge is assigned a number called the weight of the edge, is known as weighted graph.



Fmite Graph If the Vertex set is a finite Set Infinite graph

Vertex set is Infinite set



(Finite graph)

(Infinite graph)

Order of a Graph: No. of Vertices in a graph. |V(G)| = Order of graph G

V(G) = {a, b, c, d} |V(G) = 4

Trivial Graph :-One Vertex and No Edge

