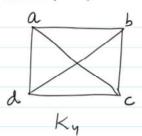
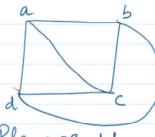
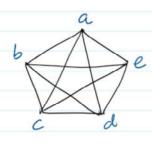
Planar Graph ;->

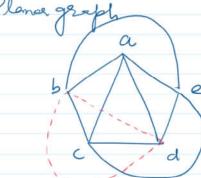
A Planar graph is a graph drawn in the plane in such a way that no two edges intersect (cross) each other.





> Planar Representation





Non-planer g

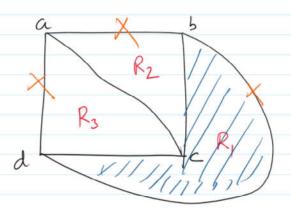


Non-planar graft

Planar graph: A Planar graph is a graph which is isomorphic to a plane graph i.e., it can be redrawn as a plane graph.

Region: A plane graph partitions the plane into several regions. These regions are

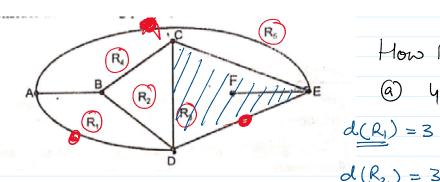
called faces. Each region is depicted by the set of edges. 1. if the houndary of h





Degree of face: If G be graph and g be its face, then the number of edges in the boundary of g with cut edges counting twice is defined as the degree of face g.

$$deg(R_1) = 3$$

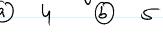


$$d(R_3) = 5$$

$$d(R_4) = 4$$

$$d(R_5) = 3$$

How Many Regions are there a) 4 b 5 0 6 0 7



 $d(R_2) = 3$ 

