40 201 9 Def 6 Root of a tree Def 7 Parent - child ancestor - decendant If V, is a parent of V2 & V2 is ancestor of V3 then V, is anestor of Vz proposition) If a tree has a nodes, then it has h-1 edges N-1 Childs => N-1 edges proposition 2 g = (V, E) |V| = n1) g is connected 2) 9 has no cycles 3) |E| = h - 1Def 9 S-E Connectivity S, + 6 V 9 is s-t connected if] path from s to c Defa Independent set X = V # U, V ∈ X 7 (U, V) 6 E Def 10 Biparte graph g V = V, UV2 & V, V2 are independent sets Def 11 Matchins in biparte graps 5 Def 13 Spanning tree of g Def 12 Degree of a node is a tree that includes all hodos from & & Subgraph P = {13 R2 = {1, 2, 3} (1,2), (1,3) / 1 3 T P3 = {1,2,3,7,5,6}

g = (V, E)

Problems

only for connected graph

