

3) A graph & is bipartite if there exists a partition (A,B) of the vertices where every edge in & joins one vertex is A with one vertex in B. . Start with one vertex in A, then all neighbooks are in B. Then the neighbours of these neighbours must be in A, etc. Non-bipartite graphs: . If one vertex is in A, B& X 6B both neighbours are in B. But those neighbours are adjacent. Therefor, not bipartite. Adjacent => Not bipartite. EB . A cycle with an odd number of vertices is non-bipartite. 4) For m,n, the complete bipartite graph Km,n with bipartition (A,B) satisfies IAI=m, IBI=n, and every vertex in A is joined with every vertex

FIVE STAR

M9th 239-Lecture #19 Cont.

