Lecture 4 handout

graph in which each vertex has valence k. A k-regular graph is a simple 3-regular graph is called a cubic graph.



Bonus: Mutrices for graphs Adjacency matrix:

2 (01 0) A= (032)

neidence matrix:

aij: # of Robes between aij: # of Robes between by and Victors count as 2)

Lift 4: 15 incident

(2 if c; is alognat v;;

Laplacian matrix:

Dir diagonal matrix of degrees of vertices.

C B-A.

Next time: Directed graphs; Intra. to trees.