Lecture 1 handout

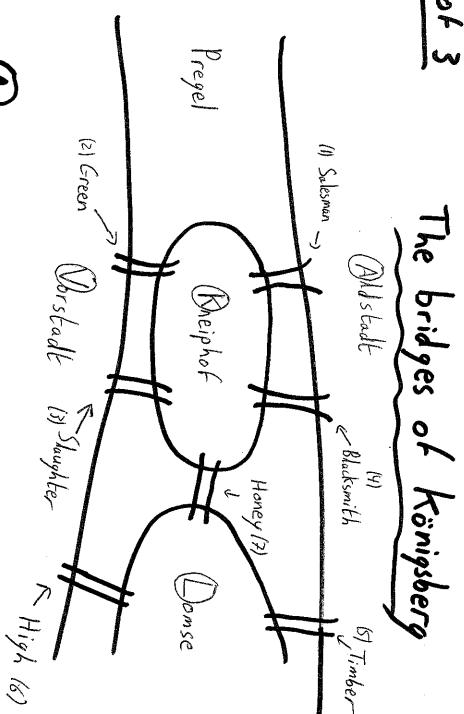
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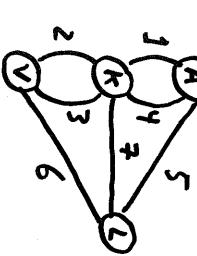
Review course outline

Homepage: www.math. toronto.edu/ddmoskov/mat 332 Textbook: Graph Theory (3rdedition) Office: 8A 6189 Tel: 416-978-5001 Daniel Moskovich J'alpoin Phys Office hours: T4-5 R2-3 MAT 332 Bondy - Murty; Springer 2008. Introduction to Graph Theory

Propaganda: Graph theory is fun and useful.







· V= {A, K, V, L}

E={1,2,3 4,56,73

Y: E-V2) incidence function

ツハーナルーAK; アルコーナソコートレン 715)=AL; 416)=VL; 417)=KL

The degree of valence of vertex v For Euler's graph, Valences are {5,3,3,3,3}. number of edges incident to V. is the

neigh bours. Vertices connected by are adjacent. Adjacent vertices are an edge

loops or parallel edges. simple graph is a graph with no

A loopless graph is a graph with no Loops.

Handshake Lemma

If G=(U,E) is a graph, then Edeg(v) = 2/E/

Each edge THE)= 4, 1/2 is counted twice towards

Next time: 1.2 Isomorphism and Automorphism