Mathematics 620-352

Graph Theory 2007

Practice Class Problems

These should be attempted before the practice class.

The abbreviation CR refers to the Course Reader (ie the first chapters of Chartrand and Oellerman) while PS refers to the Problem sets in the course guide.

Problems week by week

Practice class 1: CR 1.3 Q8, CR 1.5 Q1(a) and 5

Practice class 2: CR 1.3 Q5, CR 1.4 Q1 and 2 (leave out edge induced)

Practice class 3: CR 1.6 Q5, CR 1.7 Q1 and 5, PS 1 Q13

Practice class 4: CR 1.8 Q9, CR 2.1 Q10, (CR 2.2 Q1 if time permits)

Practice class 5: CR 3.3 Q2, PS 2 Q9

Practice class 6: CR 3.6 Q1 using Kruskal, Use the graph in CR 1.7 Q1 to find dfi, cutvertices etc using DFs algorithm

Practice class 7: PS 4 Q 2,3 and 4

Practice class 8: PS 5 Q2

Practice class 9: PS 5 Q8 from scratch (ie do not assume any partial matching), and PS 3 Q4

Practice class 10: PS 6 Q2, PS 5 Q5

Practice class 11: PS 6 Q4