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### MAS210 Graph Theory Exercises 2 Solutions

This is a first course in graph theory. Topics include basic notions like graphs, subgraphs, trees, cycles, connectivity, colorability, planar graphs etc. We continue with some particularly interesting areas like Ramsey theory, random graphs or expander graphs.

### Graph theory - solutions to problem set 1

### R-exercises - Graph Theory: Using iGraph Solutions (Part-2)

Diestel's Graph Theory 4th Edition Solutions. This is not intended to have all solutions. Let me know if you spot any mistake in the solutions. Below, I list all the exercises that I have written a solution for.

Graph Theory (MAD 6307) 3 credits Prerequisites: MAS 4107 or MAS 5311 A first graduate course in theory and applications of graphs, including basic properties, algorithms, matchings, network flows, connectivity, colorings, planarity, vector spaces, and polynomials associated with a graph. Solutions will in general need to be well-written.

Notice in the solution that we can improve the size of cycle from  $p$  to  $p+k+1$ . Exercise 1.4. We know that from proposition 1.3.2 that every graph containing a cycle satisfying  $g(G) \geq 2 \text{diam}G + 1$ . Is the bound is best possible? Proof. Yes. It is the best possible bound because equality occur when  $G = K_3$ . Exercise 1.5. Show that  $\text{rad}G \leq \text{diam}G \leq 2 \text{rad}G$ : Proof.

Graph Theory Exercises In these exercises,  $p$  denotes the number of nodes and  $q$  the number of edges of the graph. 1. A graph has 12 edges and 6 nodes, each of which has degree 2 or 5. How many nodes are

there of each degree? 2. For each of the following, describe a graph model and then answer the question.

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### Graph Theory Exercises

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engineering. Graph theory is not really a theory, but a collection of problems. Many of those problems have important practical applications and present intriguing intellectual challenges. The present text is a collection of exercises in graph theory. Most exercises have been extracted from the books by Bondy and Murty [BM08, BM76],

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MAS210 Graph Theory Exercises 7 Solutions Q1 Determine whether each of the following graphs  $G_1$  and  $G_2$  are bipartite. Justify your answers.  $v_1 v_2 v_3 v_4 v_5 v_6 v_7 v_8 v_9 v_{10}$

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graph theory and infinite graphs. At the end of each chapter, there is a section with exercises and another with bibliographical and historical notes. Many of the exercises were chosen to complement the main narrative of the text: they illustrate new concepts, show how a new invariant relates to earlier ones,

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Graph Theory Spring 2013 Prof. János Pach Assist. Filip Moric Exercise sheet 4: Solutions Caveat emptor: These are merely extended hints, rather than complete solutions. 1. What is the largest number of edges that a graph on  $n$  vertices can have without being connected? Solution. The graph consisting of  $K_{n-1}$  and an isolated vertex is dis ...

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**Graph Theory SS11 - Max Planck Society**

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