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Exercises - Graph Theory SOLUTIONS

MAS210 Graph Theory Exercises 2 Solutions Q1 Consider the following graph  $G$ .  $u$   $u$   $u$   $u$   $u$   $u$   $u$   $u$   $v_1$   $v_2$   $v_4$   $v_3$   $v_5$   $v_6$   $v_7$   $v_9$   $v_8$   $v_{10}$  (a) An implementation of the basic tree growing algorithm starting at  $v_7$  produces the following tree  $T_5$  at the end of the  $f$ th iteration:  $V(T_5) = \{x_1; x_2; x_3; x_4; x_5\}$  where  $x_1 = v_7$ ,  $x_2 = v_{10}$ ,  $x_3 = v_5$ ,  $x_4 = v_2$ ,  $x_5 = v_8$ , and  $E(T_5) = \{v_7v_{10}; v_{10}v_5; v_7v_2; v_{10}v_8\}$ .

MAS210 Graph Theory Exercises 2 Solutions

$(n-1) + (n-2) + \dots + 1 + 0 = \frac{n(n-1)}{2}$ : Exercise 1.2. Determine the average degree, number of edges, diameter, girth, and circumference of the hypercube graph  $Q_d$ . Proof. Since  $V$  is the set of all  $0-1$  sequences of length  $d$ . Thus total number of vertices is  $2^d$ , since in each place we can assign two number  $0;1$ . Since two such

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1.2. Exercises 3 1.2 Exercises 1.1 For each of the graphs  $N_n$ ,  $K_n$ ,  $P_n$ ,  $C_n$  and  $W_n$ , give: 1) a drawing for  $n = 4$  and  $n = 6$ ; 2) the adjacency matrix for  $n = 5$ ; 3) the order, the size, the maximum degree and the minimum degree in terms of  $n$ . 1.2 For each of the following statements,  $n$  a graph with the required property, and give its adjacency ...

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