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Model the following situations as (possibly

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weighted, possibly directed) graphs. ...  
Solution We use Euler's formula:  $V + F = E + 2$ .  
(a) There are  $E = V + F - 2 = 6$  edges.  
Here's an example: ... so in any planar  
bipartite graph with a

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MAS210 Graph Theory Exercises 2 Solutions Q1  
Consider the following graph G. u u u u u u u  
u u u v1 v2 v4 v3 v5 v6 v7 v9 v8 v10 (a) An  
implementation of the basic tree growing  
algorithm starting at v7 produces the  
following tree T5 at the end of the fth  
iteration:  $V(T5) = \{x1; x2; x3; x4; x5\}$  where x1

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$x_1 = v_7, x_2 = v_{10}, x_3 = v_5, x_4 = v_2, x_5 = v_8,$   
and  $E(T_5) = \{v_7v_{10}; v_{10}v_5; v_7v_2; v_{10}v_8\}.$

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$(n-1) + (n-2) + \dots + 1 + 0 = \frac{n(n-1)}{2}$ : 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 numbers 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



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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, find a graph with the required property, and give its adjacency ...

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Solutions Example 1 1. List the vertices in  $GV$

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= fa;b;c;d;e;f;g;h;i;jg 2.List the edges in  
GE =

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