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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  $n$ .

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Question 1 Model the following situations as (possibly weighted, possibly directed) graphs. Draw each ...

Solution (a) A D B C E

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... so in any planar bipartite graph with a maximum number of edges, every face has length 4. Since every edge is used in two faces, we

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draw the graph represented by the given adjacency matrix.

22.  $\begin{pmatrix} 1 & 0 & 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 0 & 0 & 0 \\ 1 & 1 & 2 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 2 \end{pmatrix}$

23.  $\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

24.  $\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

25. Is every zero square matrix that is symmetric and ...

Solution: A graph with  $m$  edges has exactly  $2^m$  subgraphs with the same vertex set. So,

**Solutions for HW9**  
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## **Exercise 28. C6 W6 K6 K53**

a) Draw a graph  $G$  to represent this situation. b) List the vertex set, and the edge set, using set notation. In other words, show sets  $V$  and  $E$  for the vertices and edges, respectively, in  $G = \{V, E\}$ . c) Draw an adjacency matrix for  $G$ .

ANSWER: a) One such graph for  $G$  is:

A	B	C	D
B	C	D	E

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Example 1 1. List the vertices in  $G$   $V = \{a, b, c, d, e, f, g, h, i, j\}$   
2. List the edges in  $G$   $E = \{ab, ac, af, be, cg, ch, dj, dh, eg, fg, hi, jg\}$   
3. List the edges incident with vertex  $c$   $\{ac, cg, ch\}$   
4. List the vertices adjacent to  $g$   $\{c, e, f, j\}$   
5. Find a path from  $j$  to  $b$  Multiple paths exist, one is  $j, d, h, c, a, b$   
6. Find a cycle in  $G$  There are 3 cycles in  $G$ .

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Figure 8. Graph for Exercise 9 Exercise 9 (Homework). Answer.

Yes. The function is the following: a  $\rightarrow$  u b  $\rightarrow$  v f  $\rightarrow$  z c  $\rightarrow$  y e  $\rightarrow$  w d  $\rightarrow$  x

Figure 9. Graph for Exercise 10 Exercise 10 (Homework).

Answer. The graph are isomorphic. Firstly pull a and c down. Then move e to the left of g.

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The mapping is now easier to spot. Exercise 14.

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graph event Thus, formally, an element of  $Q$  is a map  $u, ' assigning to every  $e \in E$  either 0 or 1. Ad the probability measure  $P$  on  $Q$  is the product measure of all the measures  $P_e$ . In practice, of course, we identify with the graph$

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$G$  on  $V$  whose edge set is and call  $G$  a random graph on  $V$  with edge probability  $p$ .

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