

## Graph Theory Exercises 1 - Basics

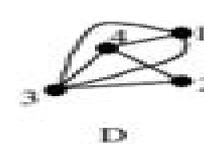
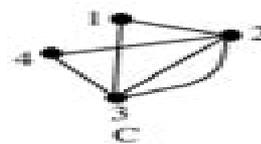
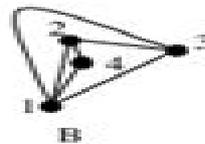
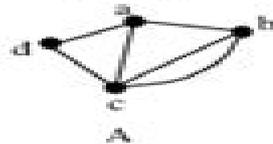
1) Draw the graphs whose vertices and edges are as follows. In each case say if the graph is a simple graph.

a)  $V = \{u, v, w, x\}$ ,  $E = \{uv, vw, wx, vx\}$

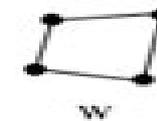
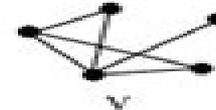
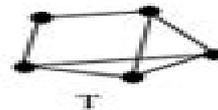
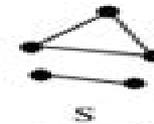
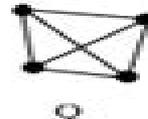
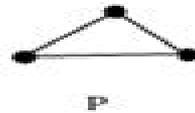
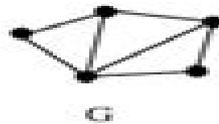
b)  $V = \{1, 2, 3, 4, 5, 6, 7, 8\}$ ,  $E = \{12, 22, 23, 34, 35, 67, 68, 78\}$

c)  $V = \{n, p, q, r, s, t\}$ ,  $E = \{np, nq, nt, rs, rt, st, pq\}$

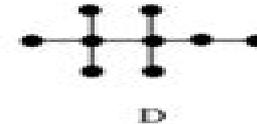
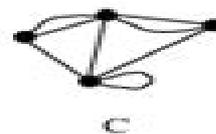
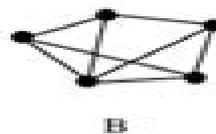
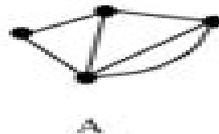
2) Which of graphs B, C and D are isomorphic to graph A? State the corresponding vertices in each isomorphic pair.



3) Which of the graphs P, Q, ..., W are subgraphs of G?



4) Write down the degree sequence of each of the following graphs.



- 5) Graphs  $G_1$  and  $G_2$  have the same degree sequence - are they necessarily isomorphic? If your answer is no, give a counter example.
- 6) Graphs  $G_1$  and  $G_2$  are isomorphic. Do they necessarily have the same degree sequence? If your answer is no, give a counter example.
- 7) Draw simple connected graphs with the degree sequences
- $(1, 1, 2, 3, 3, 4, 4, 6)$
  - $(3, 3, 3, 3, 3, 5, 5, 5)$
  - $(1, 2, 3, 3, 3, 4, 4)$

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**Zhe Xu**



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