

Name: _____

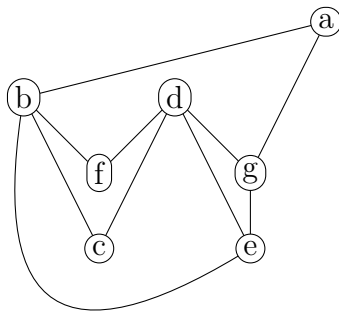
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Lecture: B

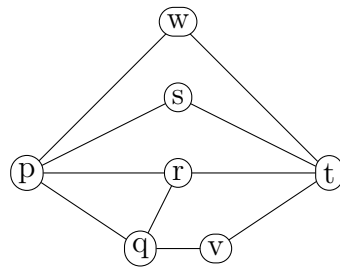
Discussion: Friday 11 12 1 2 3 4

1. (10 points) Are graphs X and Y (below) isomorphic? Justify your answer.

Graph X



Graph Y



2. (5 points) The complete graph K_8 contains 8 nodes. How many edges does it have?

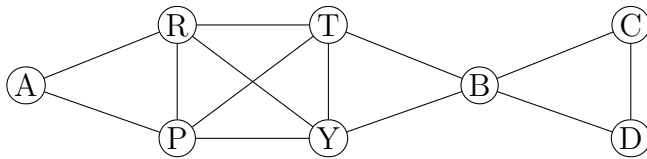
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Discussion: Friday 11 12 1 2 3 4

1. (10 points) How many isomorphisms are there from G (below) to itself? Justify your answer and/or show your work clearly .



2. (5 points) Complete this statement of the Handshaking Theorem.
For any graph G with set of nodes V and set of edges E , ...