CS 173, Spring 2015
Examlet 6, Part A

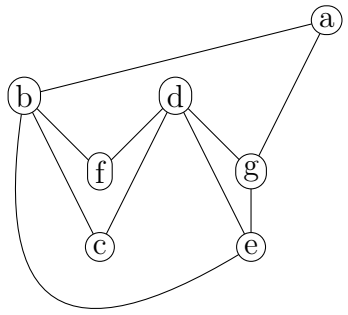
NETID:

FIRST:

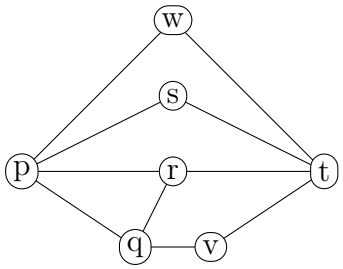
LAST:

Discussion: Monday 9 10 11 12 1 2 3 4 5

Graph X



Graph Y



1. (11 points) Are graphs X and Y (above) isomorphic? Justify your answer.

2. (4 points) Is C_5 a subgraph of W_7? Briefly justify your answer.

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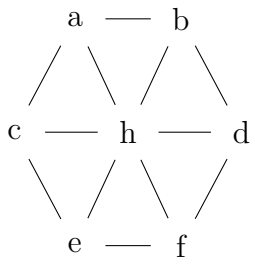
1. (11 points) How many isomorphisms are there from G (below) to itself? Justify your answer and/or show your work clearly .



2. (4 points) How many edges are in the complete bipartite graph $K_{11,6}$?

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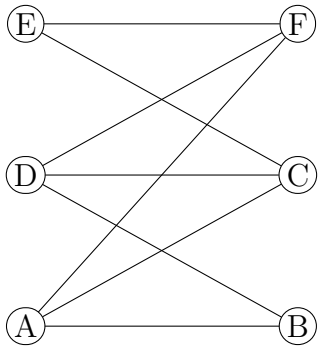
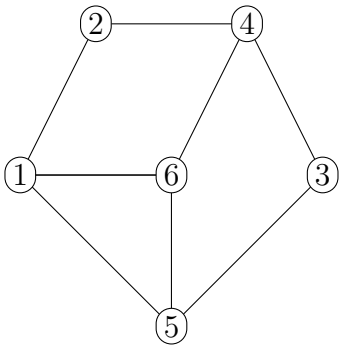
Graph X



Graph Y



1. (11 points) Are graphs X and Y (above) isomorphic? Justify your answer.

2. (4 points) The complete graph K_8 contains 8 vertices. How many edges does it have?

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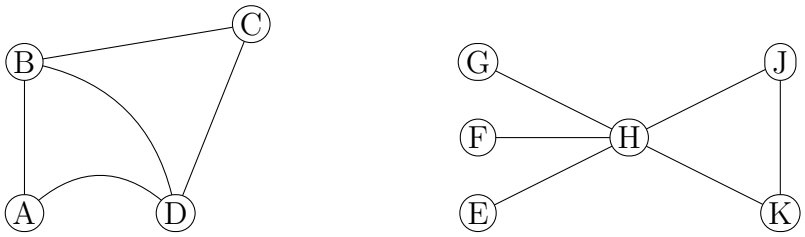

1. (11 points) How many isomorphisms are there from G (including all 10 nodes above) to itself? Justify your answer and/or show your work clearly .

2. (4 points) Is G bipartite? Briefly explain why or why not.

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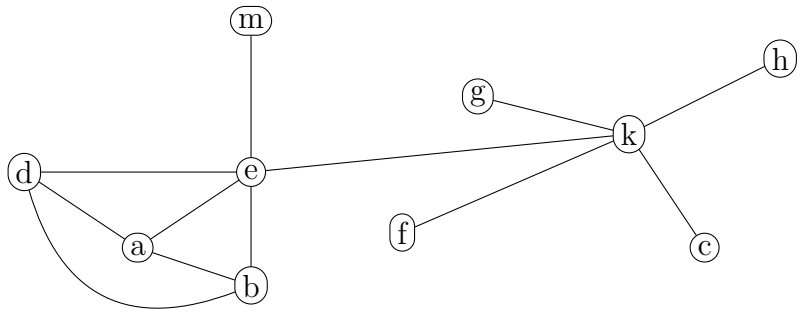

1. (11 points) How many isomorphisms are there from G (above) to itself? Justify your answer and/or show your work clearly .

2. (4 points) Draw a picture of the graph $K_{2,3}$.

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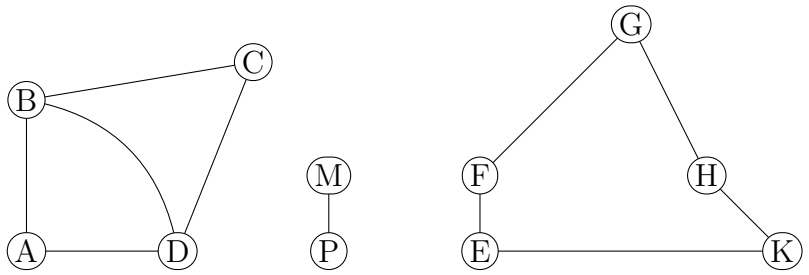

1. (11 points) How many isomorphisms are there from G (including all 11 nodes above) to itself? Justify your answer and/or show your work clearly .

2. (4 points) Is the graph C_{10} bipartite? Briefly justify your answer.