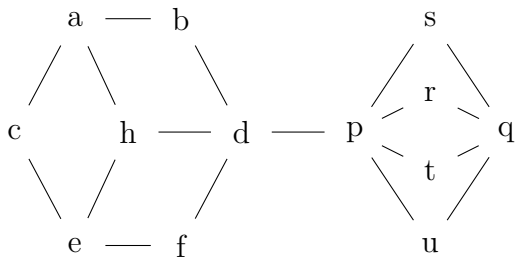
CS 173, Spring 2016
Examlet 6, Part A

NETID:	

FIRST:	LAST:

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

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) The wheel graph W_{10} has 10 nodes on the rim. Is it bipartite? Briefly justify your answer.

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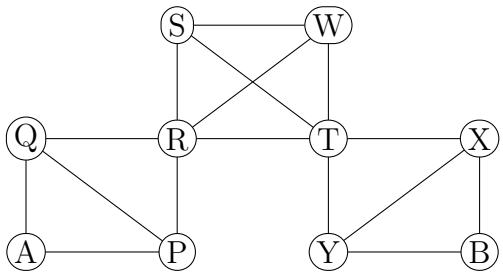
1. (10 points) How many isomorphisms are there from G (below) to itself? Justify your answer and/or show your work clearly .



2. (5 points) How many edges are in the complete bipartite graph $K_{10,5}$?

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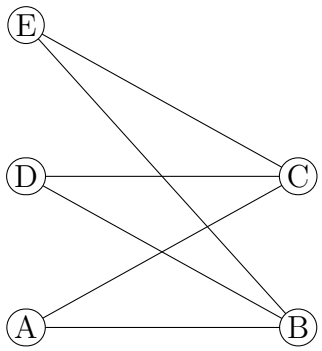
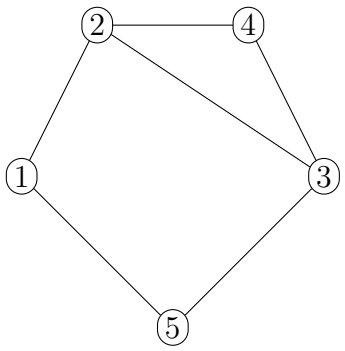
1. (10 points) Are graphs X and Y (below) isomorphic? Justify your answer.

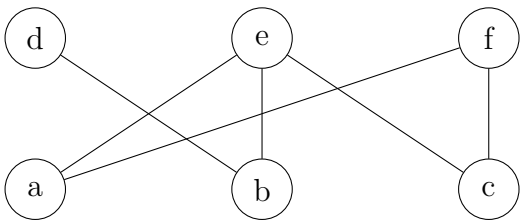
Graph X



Graph Y



2. (5 points) Is this graph bipartite? Briefly justify your answer.



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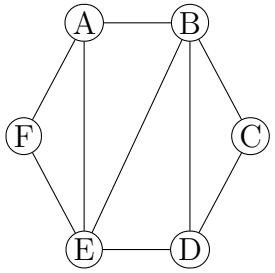
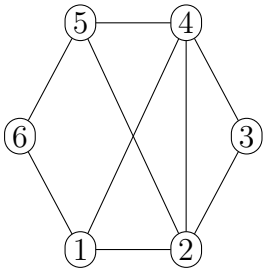
1. (10 points) Are graphs X and Y (below) isomorphic? Justify your answer.

Graph X



Graph Y



2. (5 points) The wheel graph W_{73} has 73 nodes on the rim. How many edges does it have?

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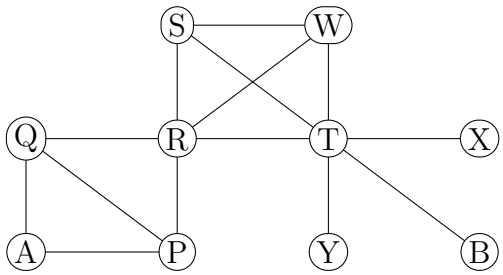
1. (10 points) How many isomorphisms are there from G (below) to itself? Justify your answer and/or show your work clearly .



2. (5 points) Does the complete graph K_8 have an Euler circuit?

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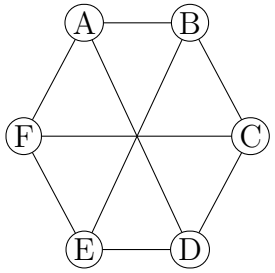
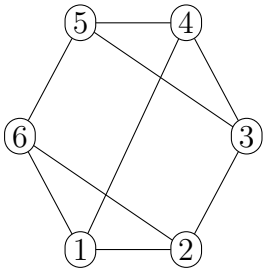
1. (10 points) Are graphs X and Y (below) isomorphic? Justify your answer.

Graph X



Graph Y



2. (5 points) Explain what a cut edge is.