CS 173, Fall 2015 Examlet 6, Part A				D:								
FIRST:						AST:						
Discussion:	Thursday	2	3	4	5	Friday	9	10	11	12	1	2



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

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2. (5 points) The complete graph K_7 contains 7 vertices. How many edges does it have?

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



2. (5 points) Is the cycle graph C_4 a subgraph of graph $K_{3,3}$? 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) What is the difference between a cycle and a closed walk?

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2. (5 points) Is the graph C_7 bipartite? Briefly justify your answer.

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2. (5 points) Does the complete graph K_7 have an Euler circuit?