CS 173, Spring 2016
Examlet 6, Part B

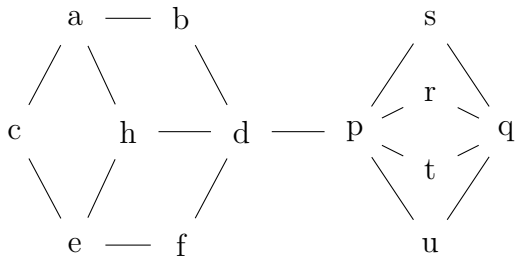
NETID:

FIRST:

LAST:

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

1. (9 points) How many paths are there from c to q in the graph below? Explain or show work.



2. (3 points) How many connected components does the above graph have?

3. (3 points) Is the above graph acyclic? Briefly explain why or why not.

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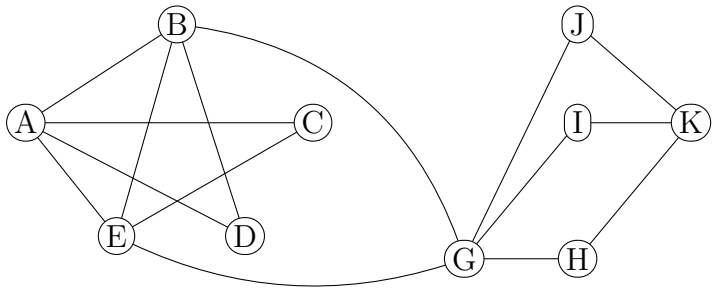
1. (9 points) How many paths are there from A to K in the graph below? Explain or show work.



2. (3 points) Does this graph have an Euler circuit? Briefly explain why or why not.

3. (3 points) Does the above graph have a cut edge? Briefly explain why or why not.

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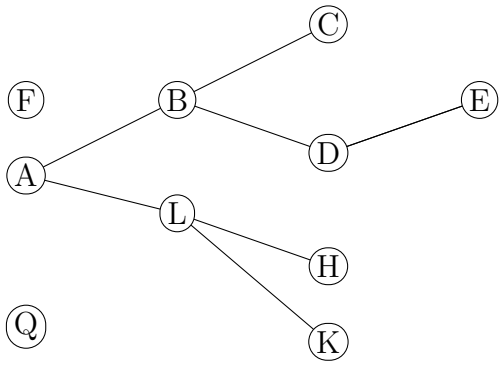
1. (9 points) How many paths are there (with any starting/ending points) in the graph below? Explain or show work.



2. (3 points) How many connected components does the above graph have?

3. (3 points) Is the above graph acyclic? Briefly explain why or why not.

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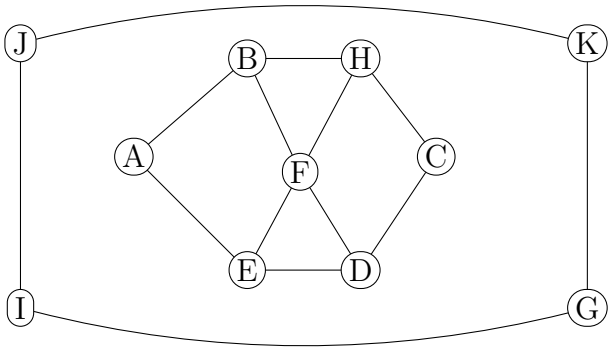
1. (9 points) How many paths are there from A to C in the graph below? Explain or show work.



2. (3 points) How many connected components does the above graph have?

3. (3 points) Is this graph bipartite? Briefly justify your answer.

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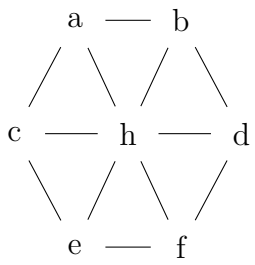
1. (9 points) How many paths are there from h to d in the graph below? Explain or show work.



2. (3 points) What is the diameter of this graph?

3. (3 points) Does this graph contain a 6-node cycle? Briefly justify your answer

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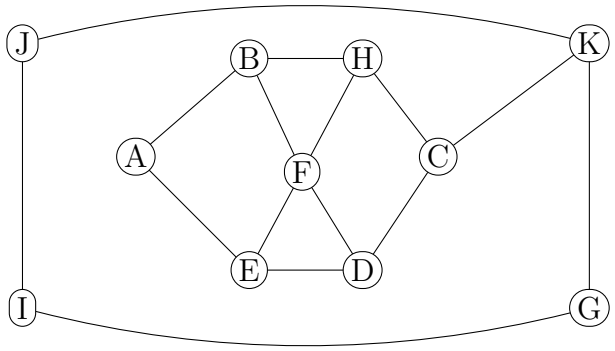
1. (9 points) How many paths are there from A to I in the graph below? Explain or show work.



2. (3 points) How many connected components does the above graph have?

3. (3 points) Does the above graph have a cut edge? Briefly explain why or why not.