

# ICS 252–Discrete Structures

Quiz: 6

Section: 4

Time: 10 minutes

Name:

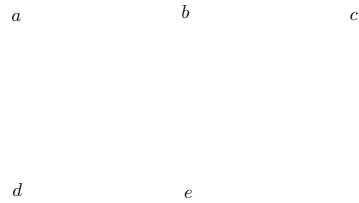
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## Question 1: [5 marks]

1. Does the following graph have an Euler circuit? If yes, write the sequence of its vertices.



2. Does the above graph have a Hamilton circuit? If yes, write the sequence of its vertices.

## Question 2: [5 marks] What are the chromatic numbers of the following graphs?

1. A cycle with  $n$  vertices.
2. A connected bipartite graph.