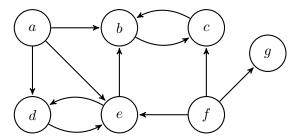
Name:
CSSE/MA 473 Worksheet for Class #6 December 6, 2022
Exhaustive search
1. Define exhaustive search.
2. Exhaustive search is a natural strategy for what types of problems?
3. How many elements of the problem domain must be generated in an exhaustive search for each of the following problems?
(a) Traveling Salesman Problem on $n$ cities
(b) Knapsack problem with $n$ items

(c) Assignment problem given n people and n jobs along with the  $n \times n$  cost matrix

## **Graph Representations**

4. Give the adjacency matrix representation of the following graph.



5. Give the adjacency list representation of the following graph.

