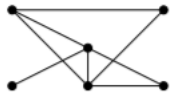


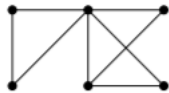
Worksheet 10

Isomorphic Graph

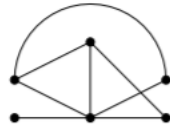
1. Draw a graph with the following characteristics: (a) It has 5 vertices. (b) There is an edge between every pair of vertices. Label the vertices as A, B, C and D.
 - (a) What is the vertex set of the graph from your drawing?
 - (b) What is the edge set of the graph from your drawing?
 - (c) Identify the total of vertices and the total of edges.
2. Given the Graph 1 to Graph 5 as below:



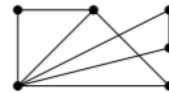
Graph 1



Graph 2



Graph 3



Graph 4



Graph 5

- (a) Is it possible for Graph 1 and Graph 2 to be isomorphic? Explain your answer.
- (b) Is it possible for Graph 4 and Graph 5 to be isomorphic? Explain your answer.
- (c) Is it possible for Graph 1 and Graph 3 to be isomorphic? Explain your answer.