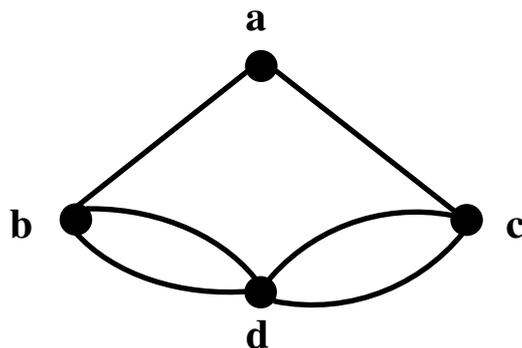


Tutorial Session 1 (Solution)

Exercise 1

Let's translate the Königsberg Bridge problem using a graph. Each region of the city is represented by a vertex, and a bridge between two regions is represented by an edge between the corresponding vertices. The graph associated with the city plan is the following graph:



Exercise 2

Graphs G1 and G2 both represent the same graph, which is a cyclic graph (a cycle) of order 6.

Graphs G3 and G4 both represent the same graph, in which one vertex has degree 4, two vertices each have degree 3, and the remaining two vertices each have degree 2.

Exercise 3

All three situations correspond to the graph of the octahedron:

