



INTRODUCTION

Roughly speaking, a graph consists of points and lines joining some pairs of points. In case all pairs of points are joined by lines the graph is said to be a complete graph.

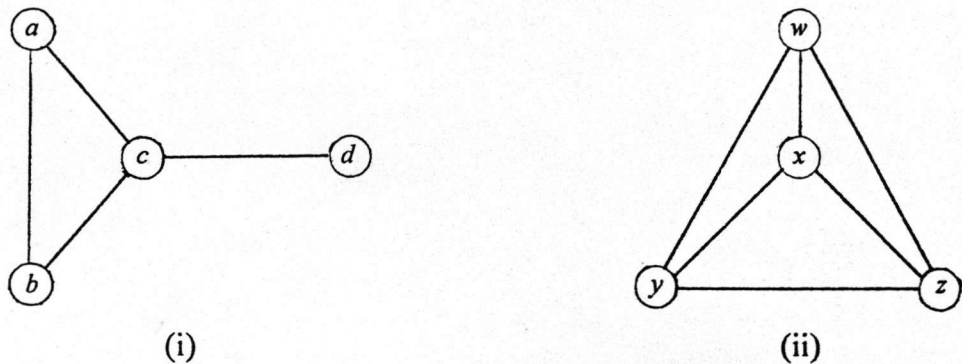


Figure 0.1

Figure 0.1 displays two graphs of order 4. The graph displayed in figure 0.1(ii) is complete, but the one in figure 0.1(i) is not.

Turán[4] considered the following problem: Given a number of points, at most how many lines can be joined among them so that. The graph obtained contains no complete subgraph of a given order? He found a formula for the maximum number of lines of graphs with p points that do not contain any complete subgraph of order r .

In this study we consider a more general question: Given p points, at most how many lines can be joined among them so that the graph obtained contains exactly n disjoint complete subgraphs of order r ?