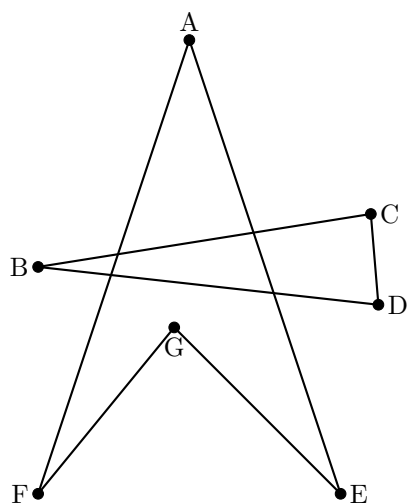
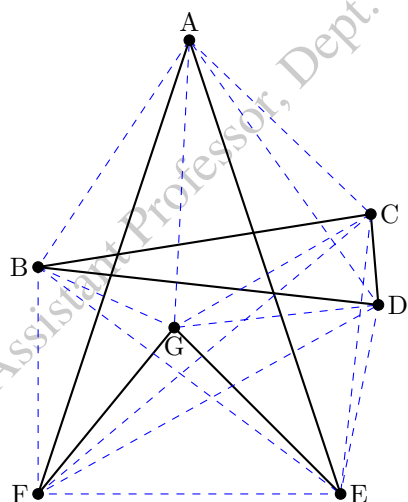



Solution (Solution of problem 2) First label the vertices as follows:



To find the complement of a graph, we will only connect all those pairs of distinct vertices that are not connected by an edge in the original graph. In the below image, the edges of the complement graph are shown with dashed lines:



 **Note** The union $G \cup \overline{G}$ of Original Graph G and its complement graph \overline{G} will be a complete graph.