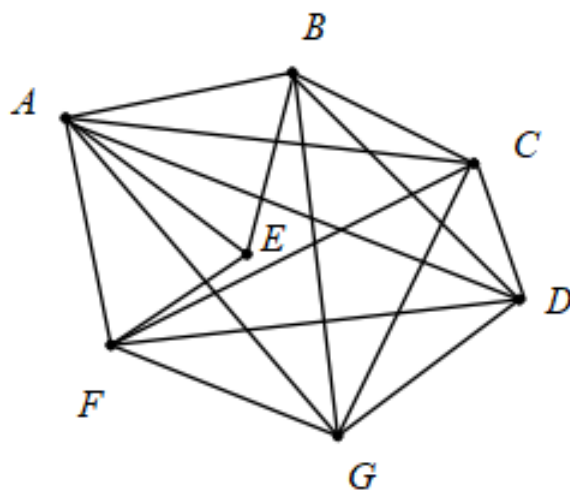


Graphs - Exercises (4 pages; 25/2/26)

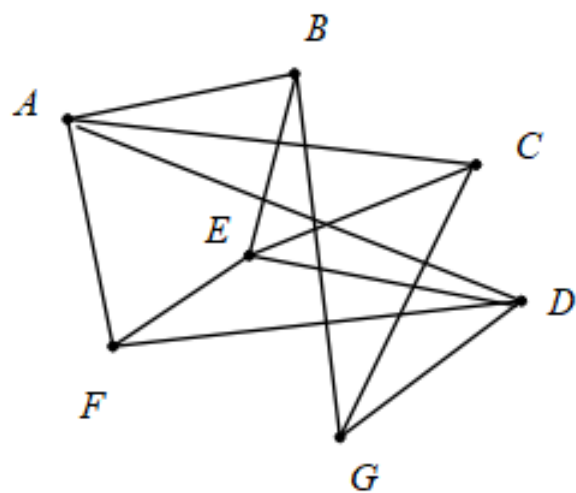
(1) Prove that the number of arcs in K_n is $\frac{1}{2}(n-1)n$?

(2) Use Kuratowski's theorem to decide whether the following graphs are planar.

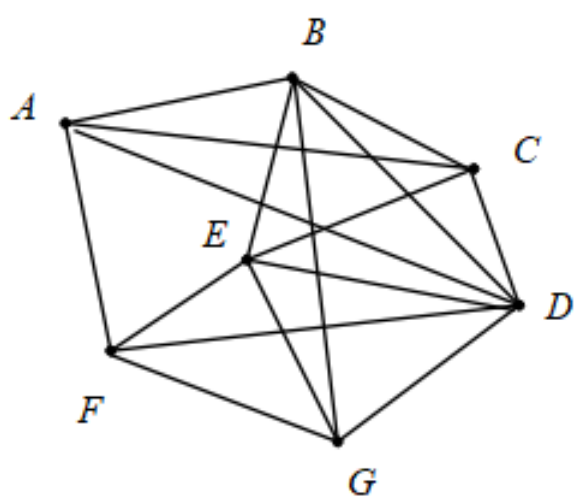
(i)



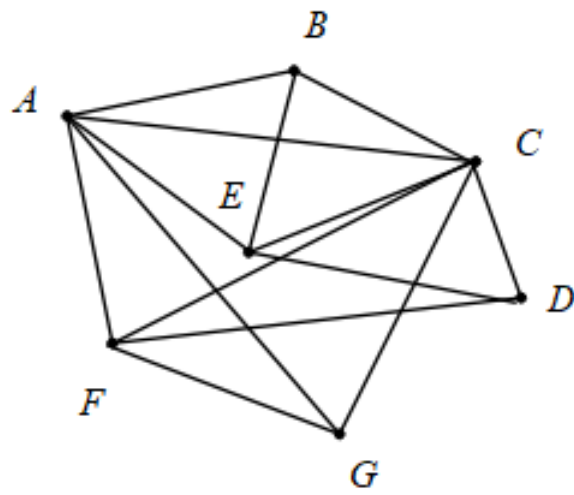
(ii)



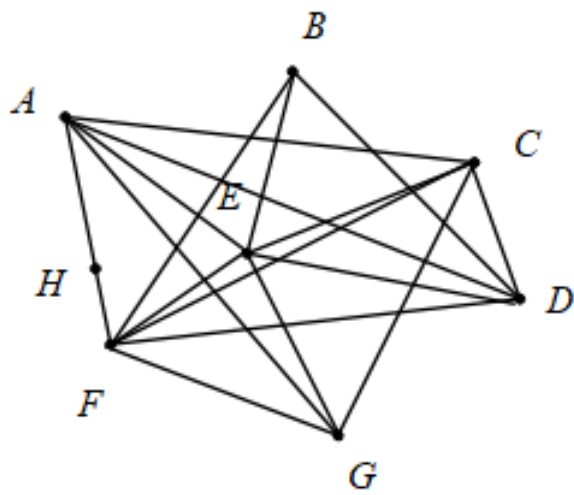
(iii)



(iv)



(v)



(3) Use the Planarity algorithm to determine whether or not K_5 is planar.