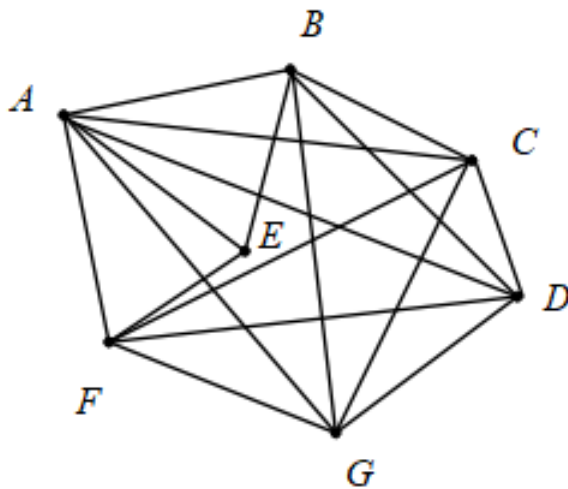


# Graphs Overview (17/6/21)

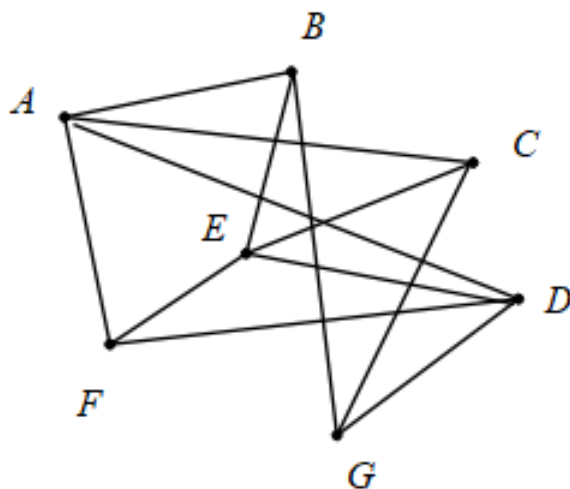
## Q1 [Practice/M]

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

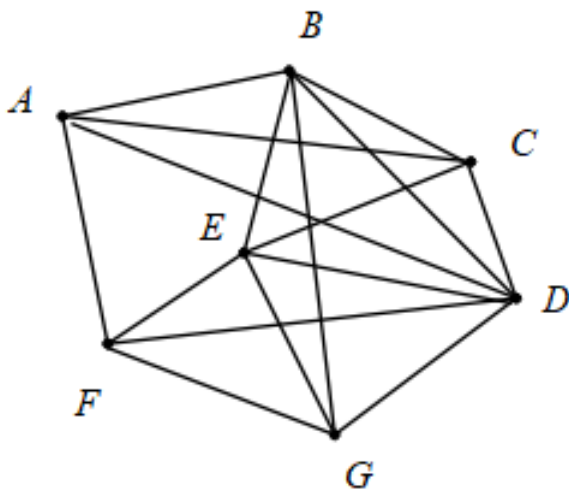
(i)



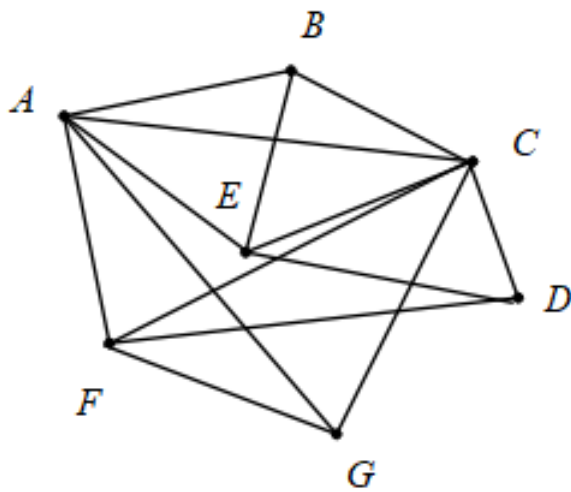
(ii)



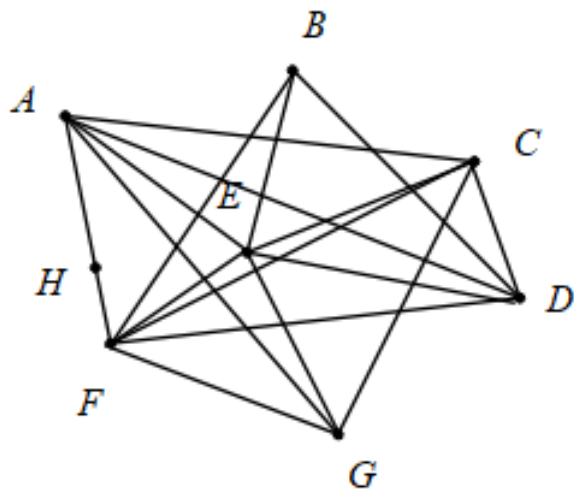
(iii)



(iv)



(v)



**Q2 [Practice/M]**

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