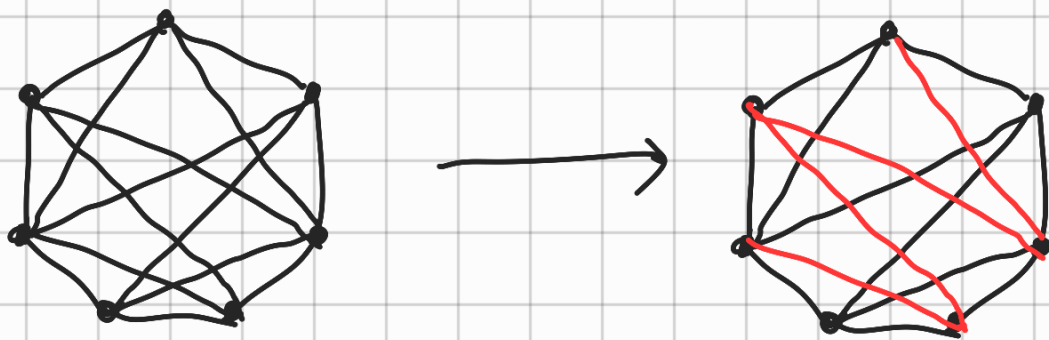
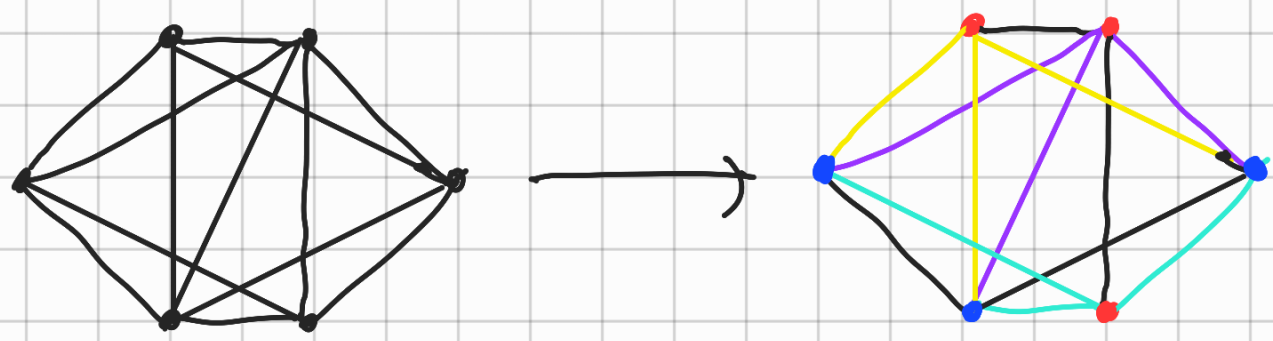


(a)



It is planar

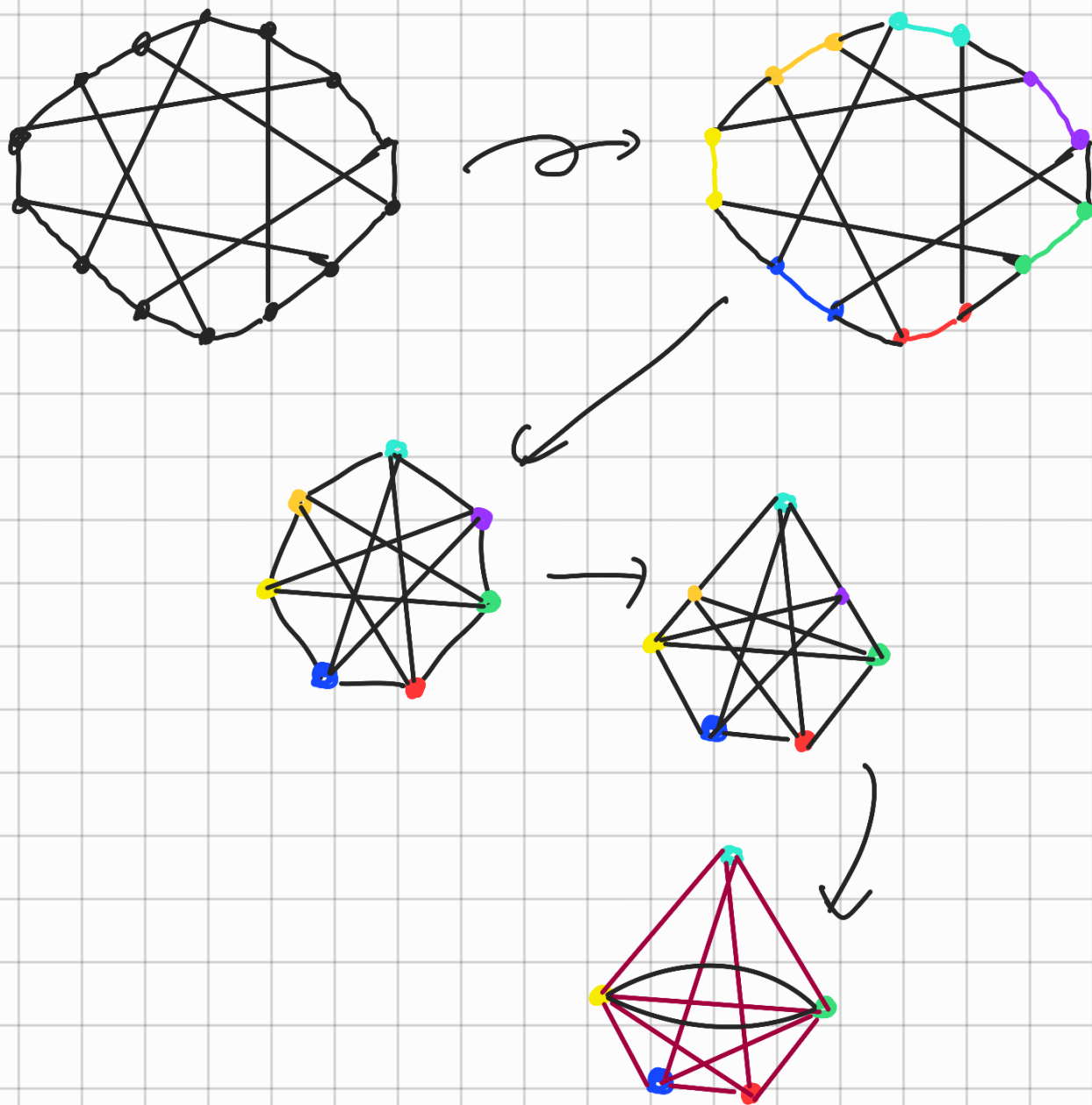
(b)



So, this graph contains $K_{3,3}$ as subgraph.

⇒ Hence, it is not plane graph.

(i) We use Kuratowski's Theorem.



SO, this graph contains K_5 as a subgraph.
 \Rightarrow This is not plane graph.