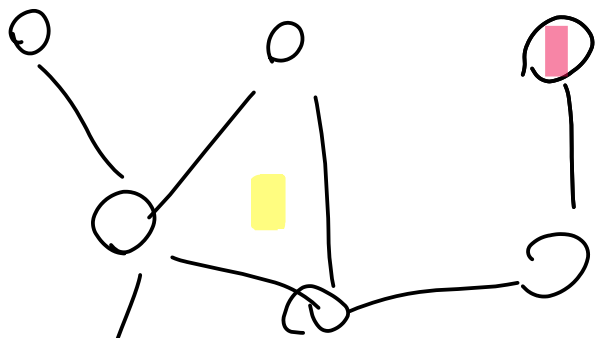
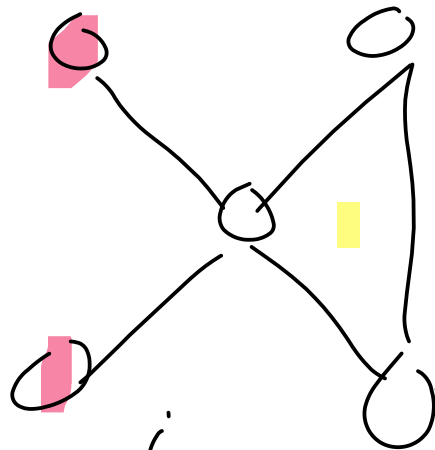
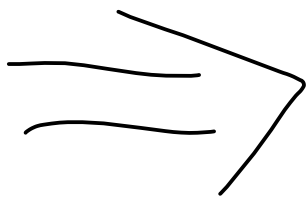


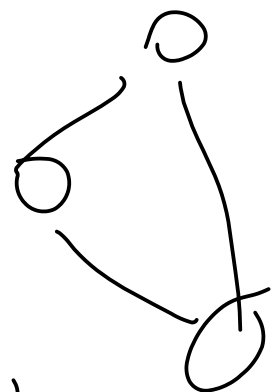
$$F - E + V = 2$$



F, E, V



F', E', V'

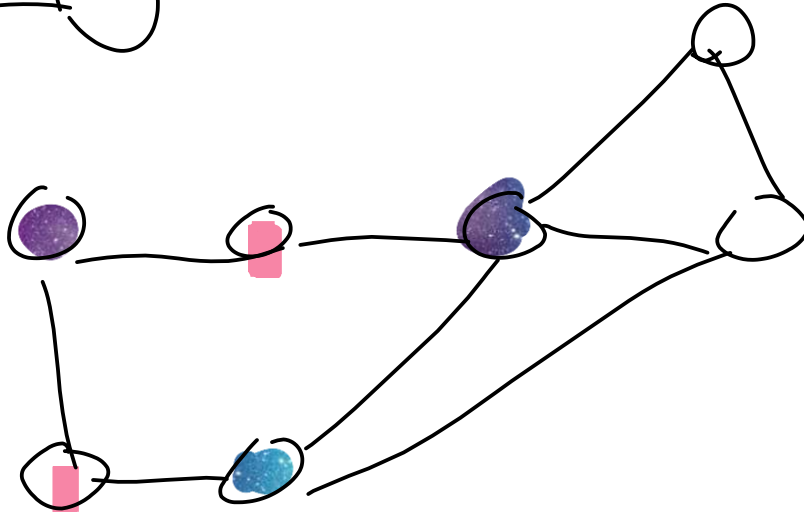
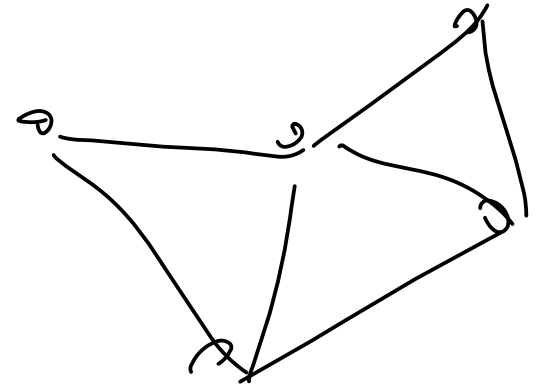
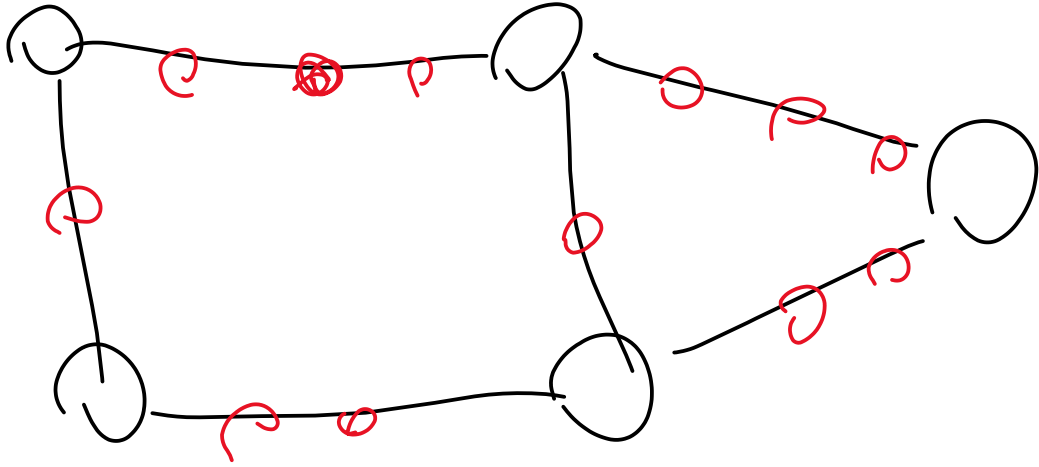


$V = V - A$

$$F - E + V = 1$$

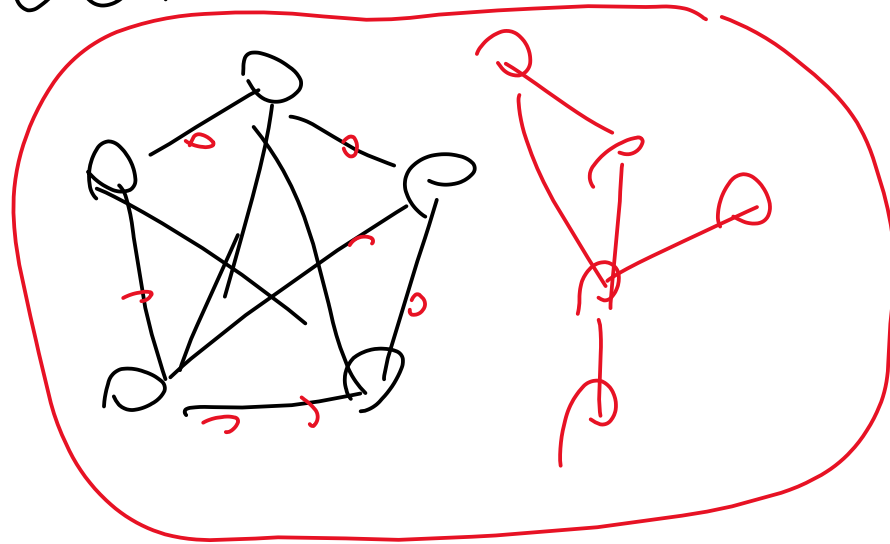
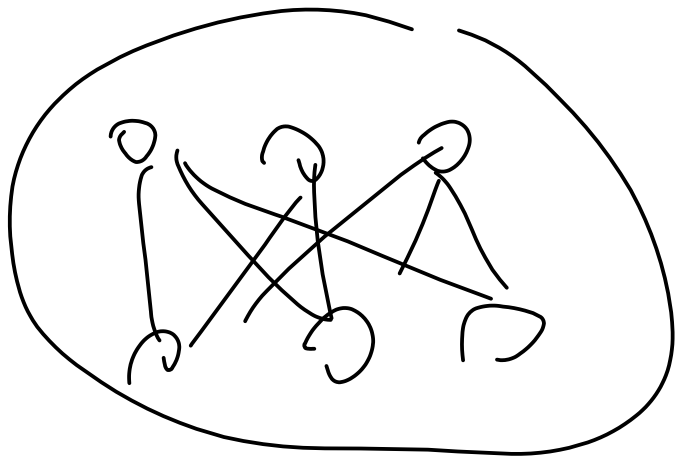
$$F' + E' = V'$$

$$V = V - A$$



G - planarny
|||

G nie zawiera rozkładu $K_{3,3}$
i nie zawiera K_5

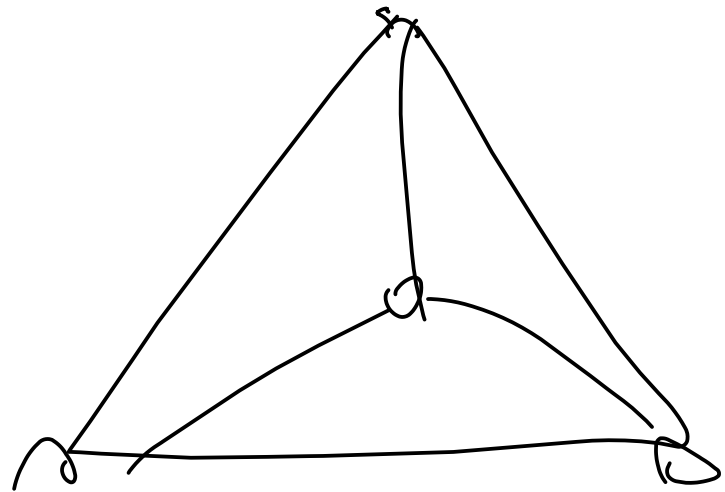
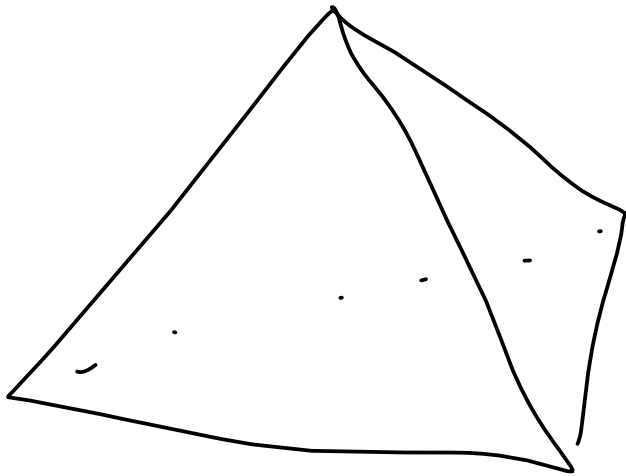
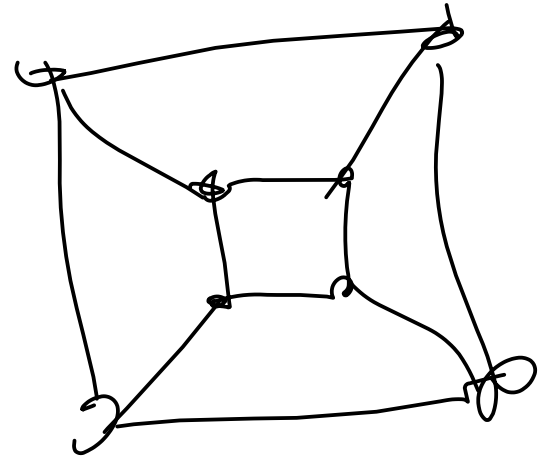
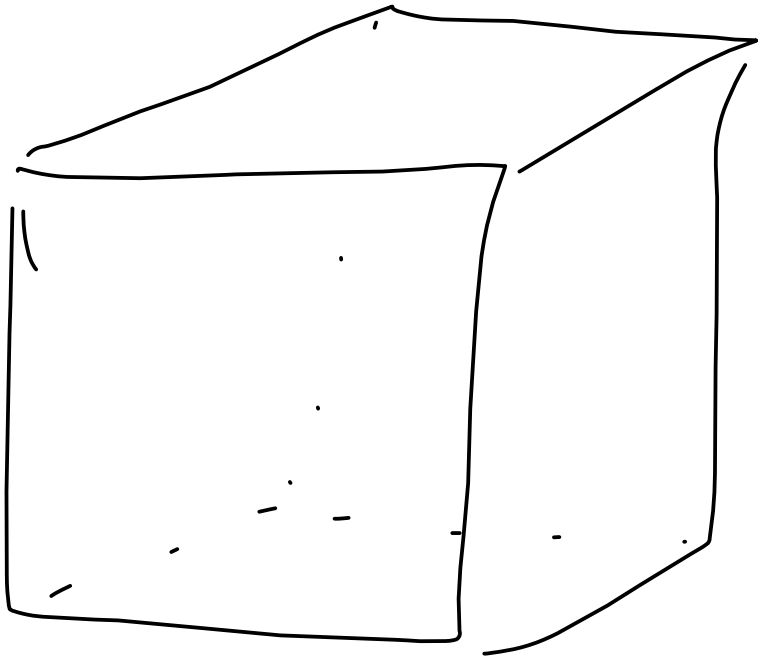


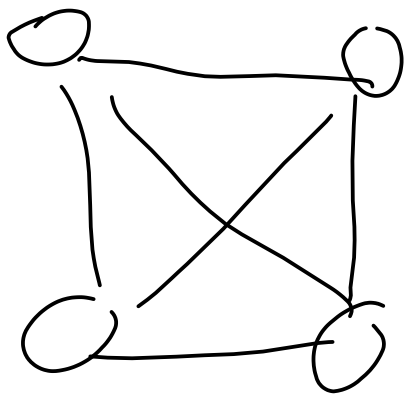
Bryły platonistyczne

3-D; wielościany.

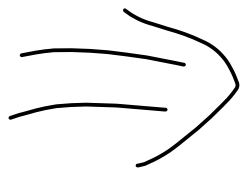
wszystkie ściany ← wiel. reg

→ 2dty wiel. ← takie same

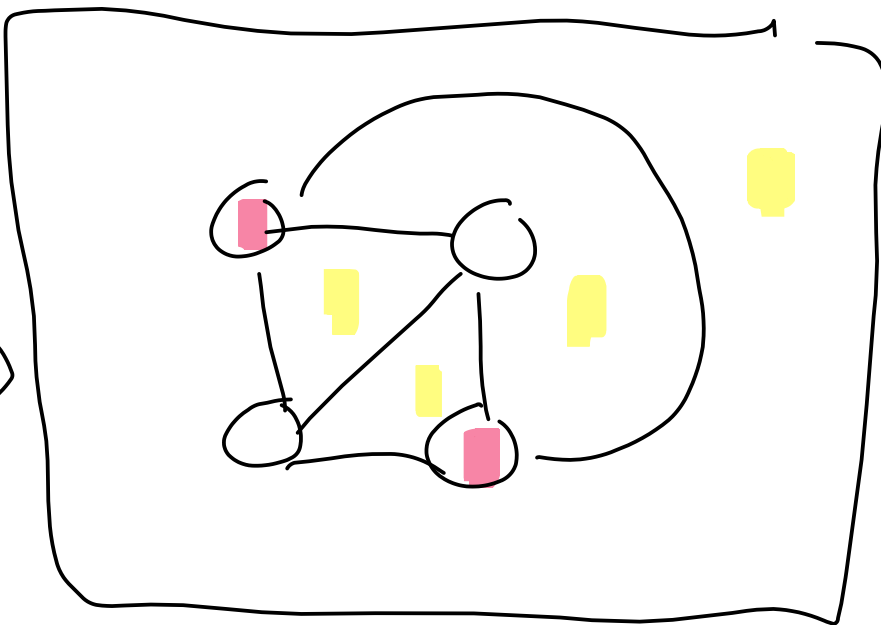




K_4



\cong



K_4

