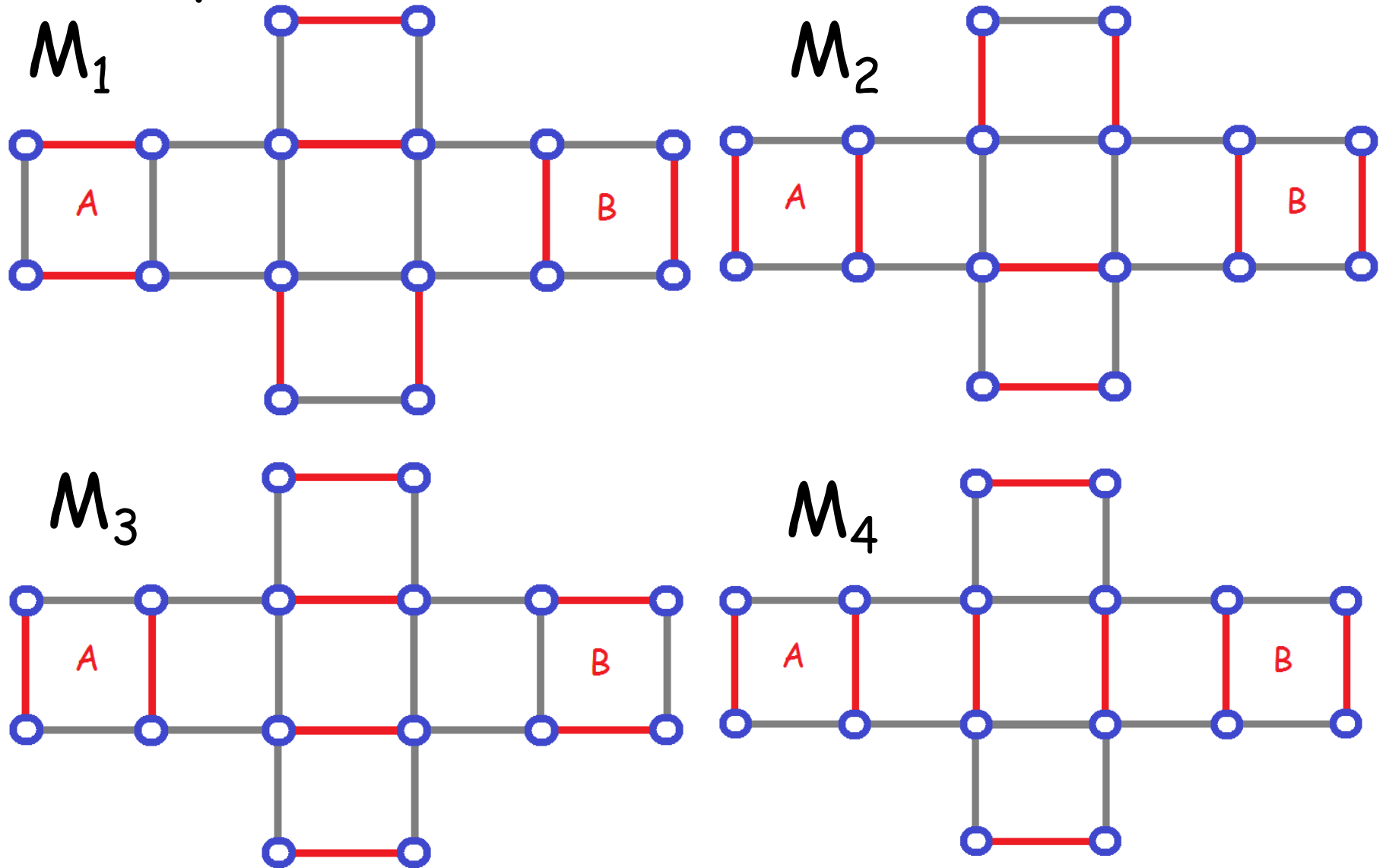
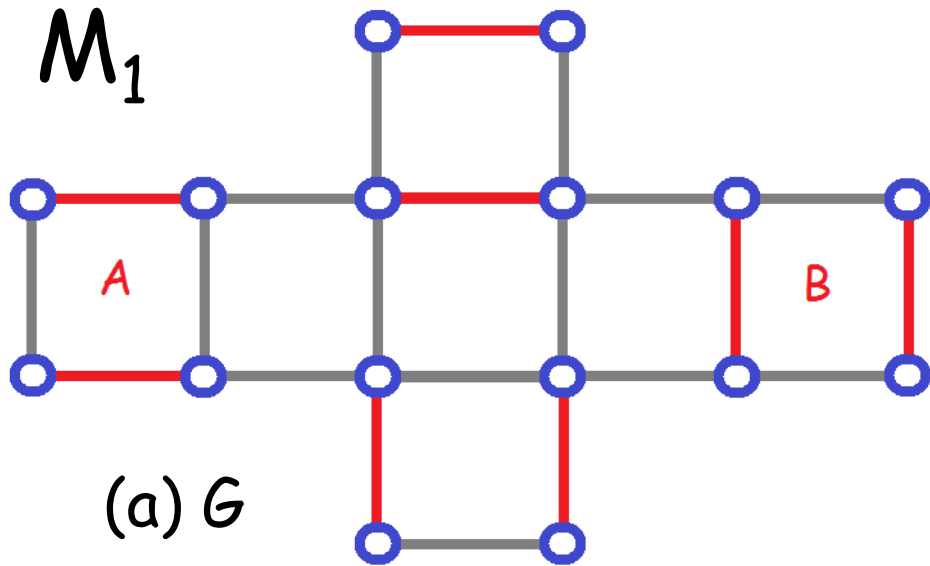


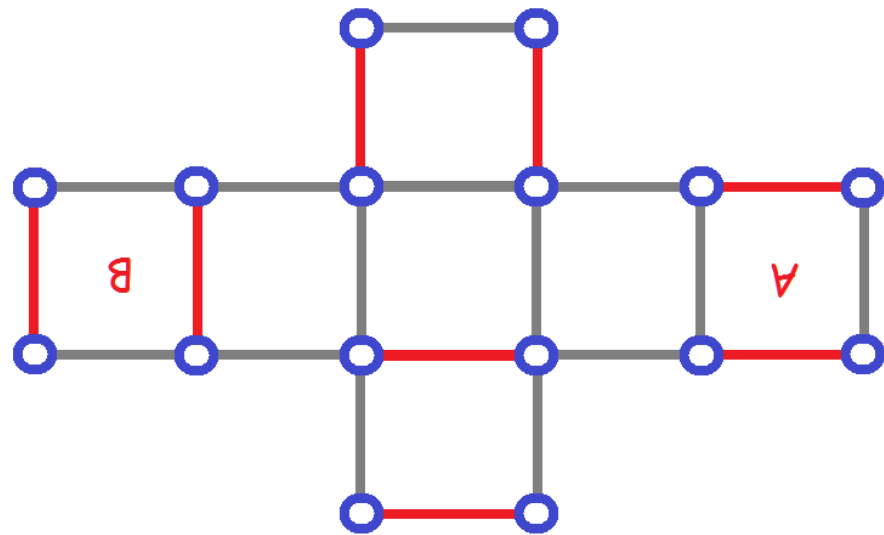
Are there any pairs of matchings that are isomorphic to each other?



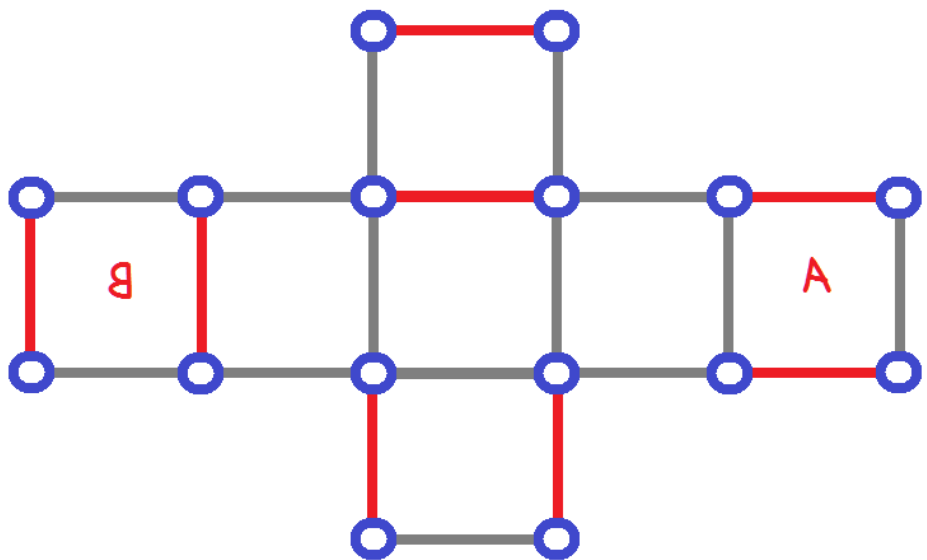
$M_1$



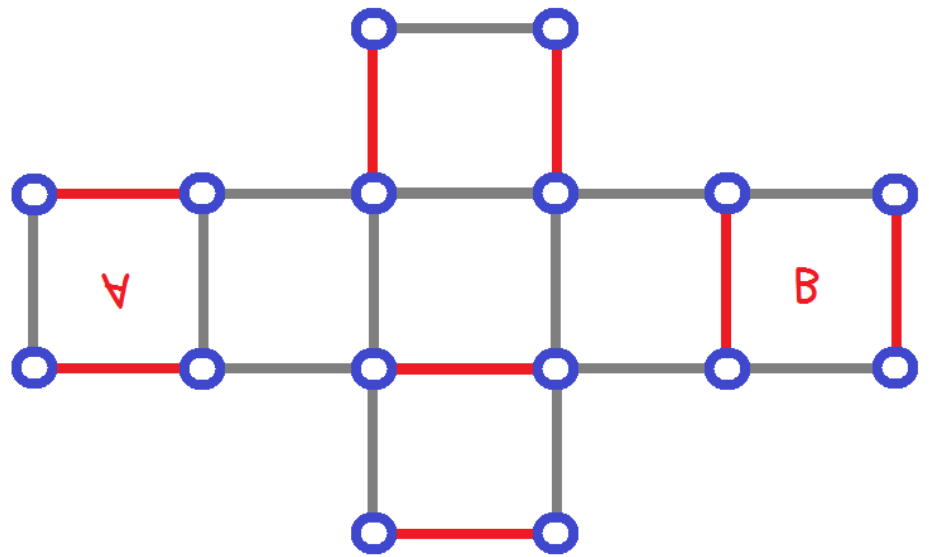
(a)  $G$



(b) rotate  $180^\circ$

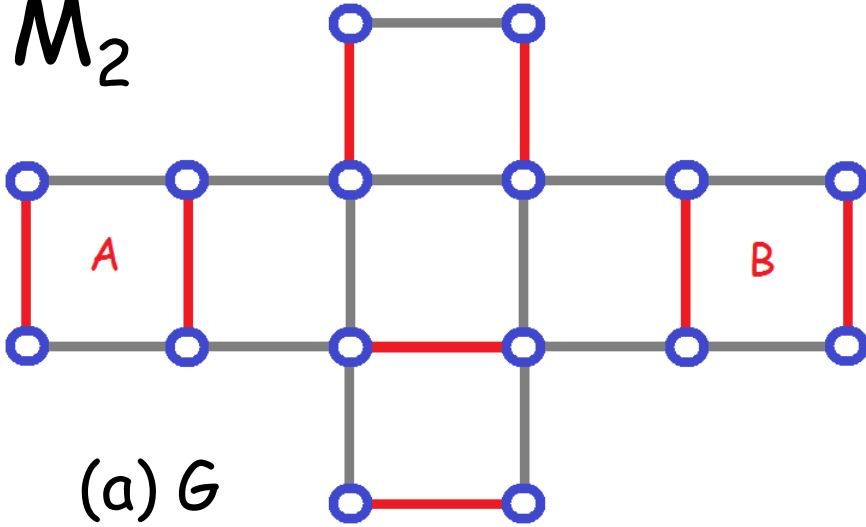


(c) flip over vertical axis

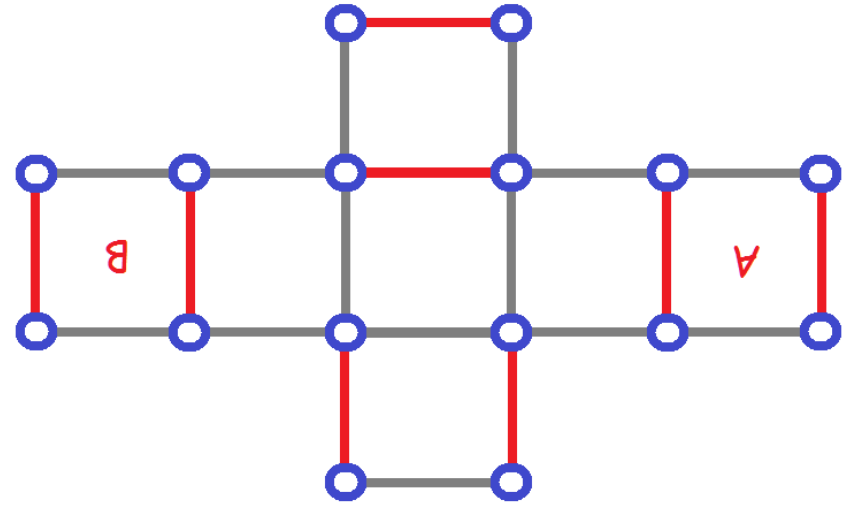


(d) flip over horizontal axis

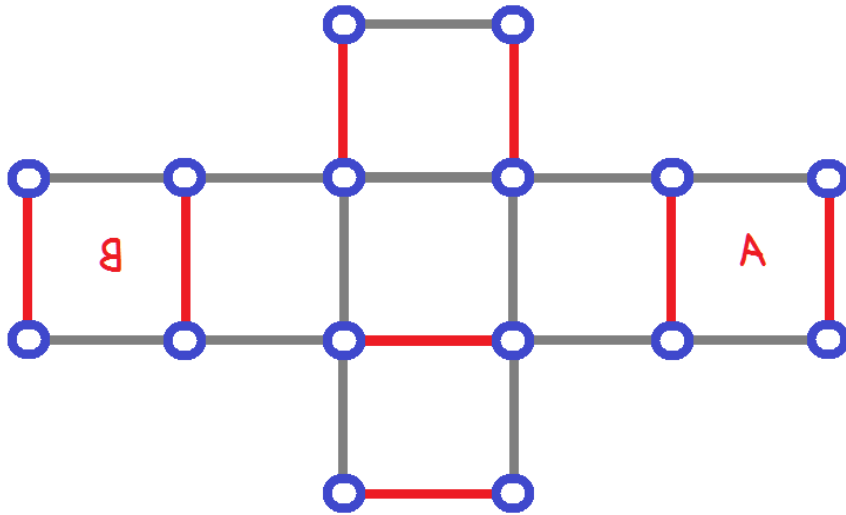
$M_2$



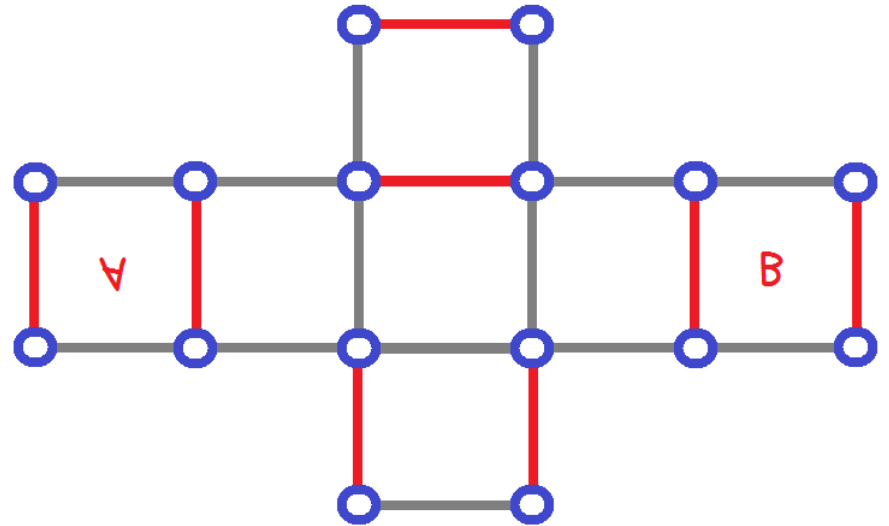
(a)  $G$



(b) rotate  $180^\circ$

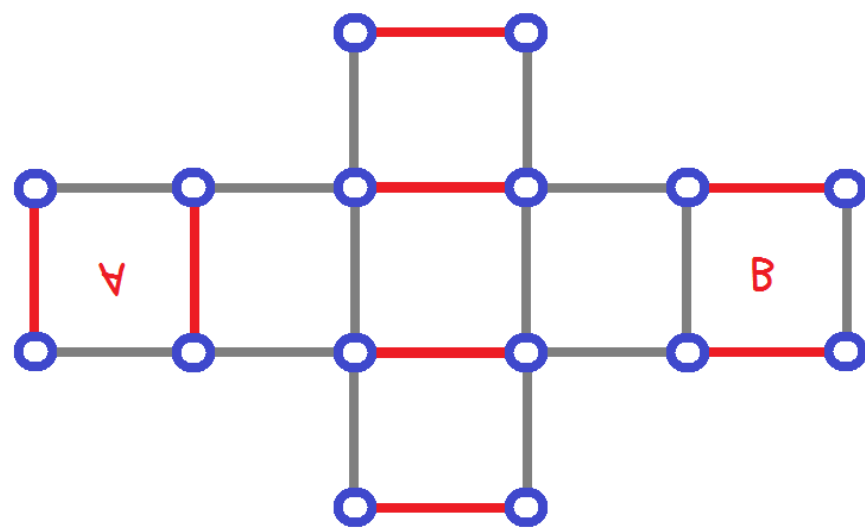
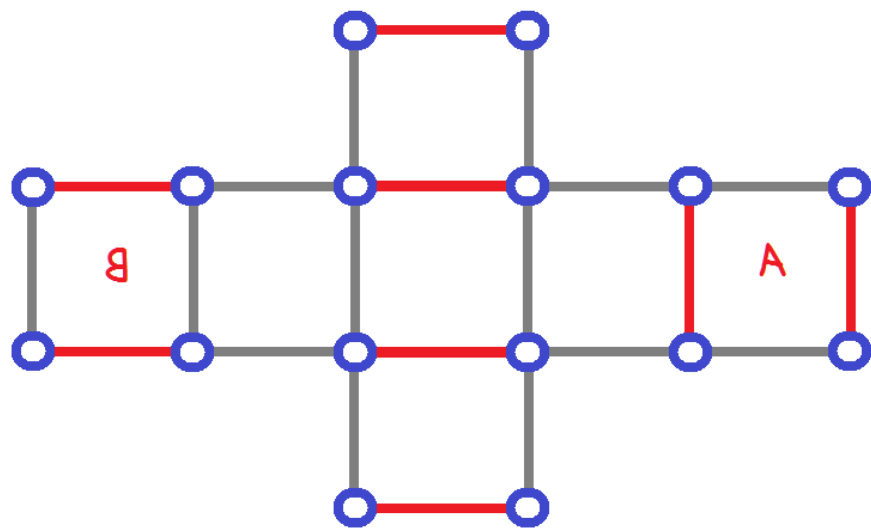
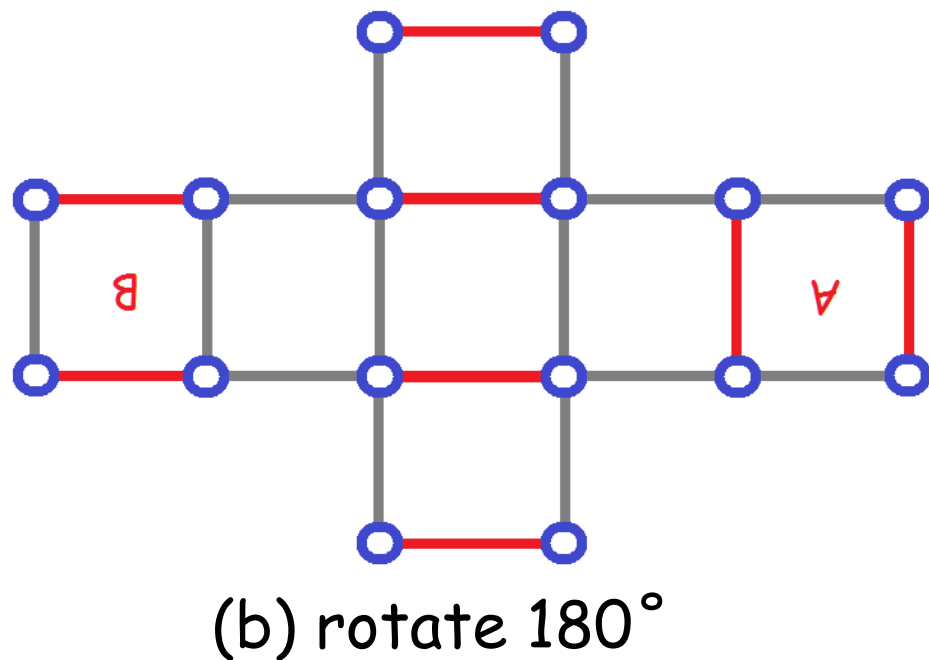
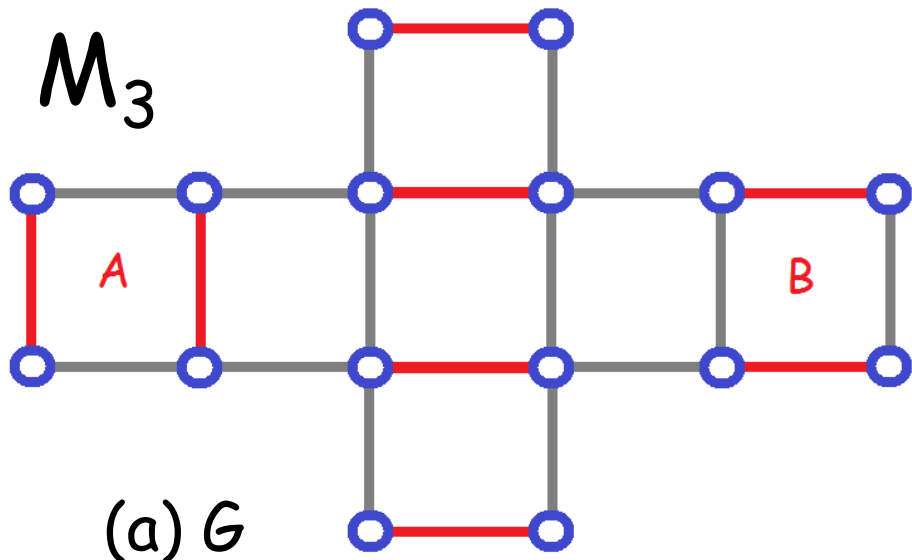


(c) flip over vertical axis

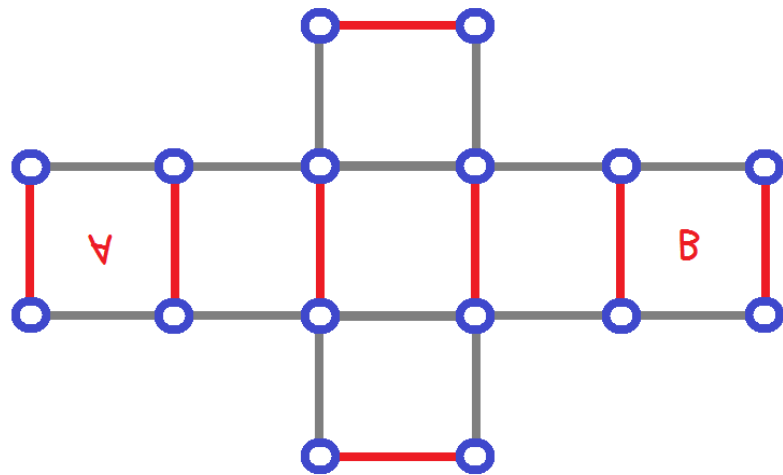
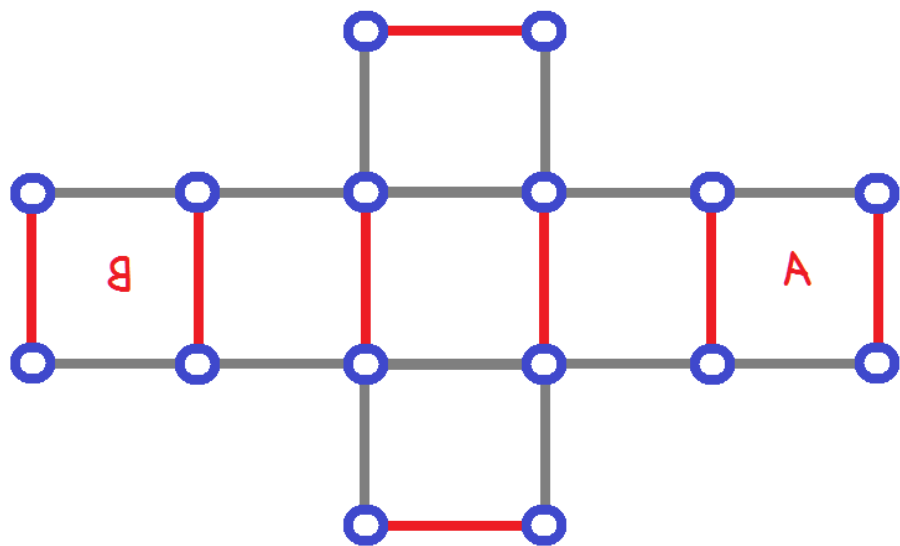
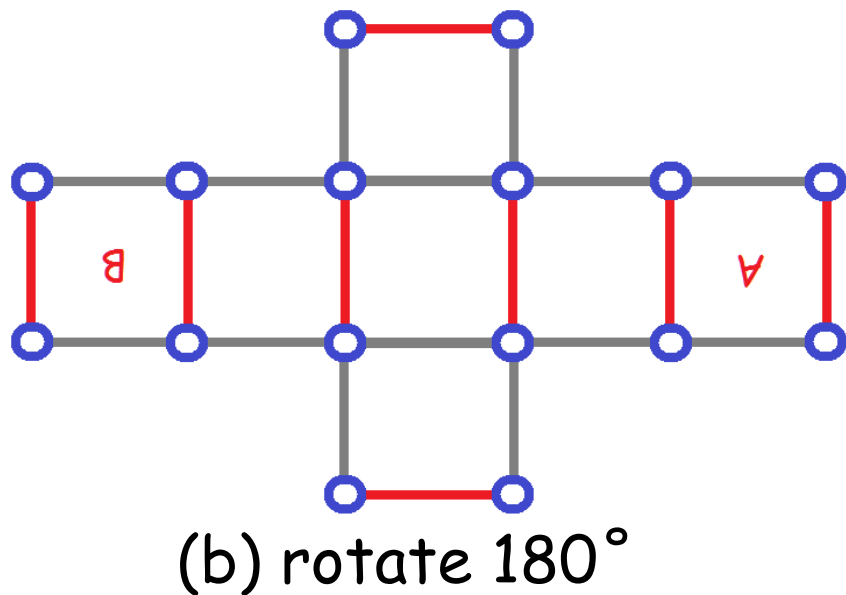
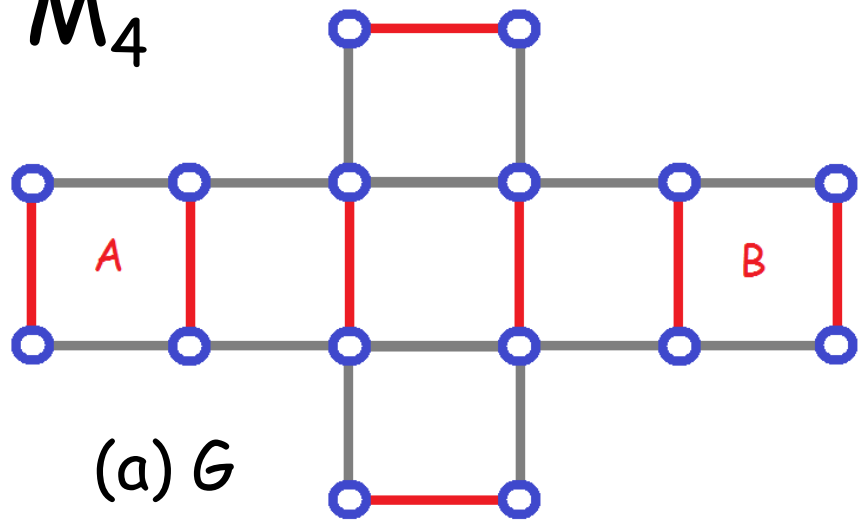


(d) flip over horizontal axis

$M_3$



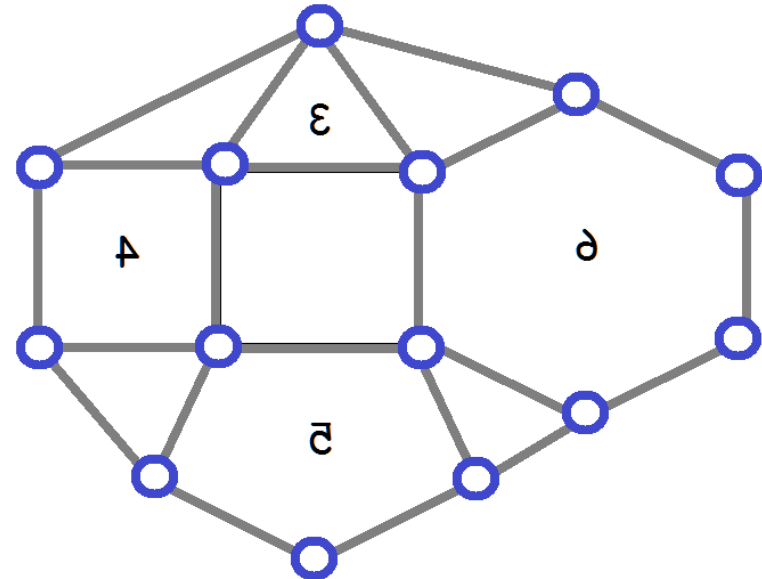
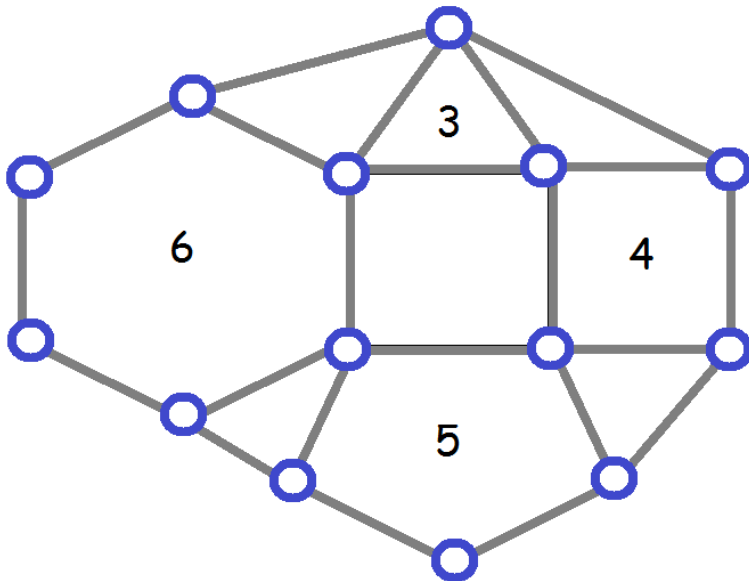
$M_4$



To **flip** an embedding: reverse the order of each of the adjacency lists.

An embedding is **chiral** if there are no automorphisms mapping the embedding to its flip.

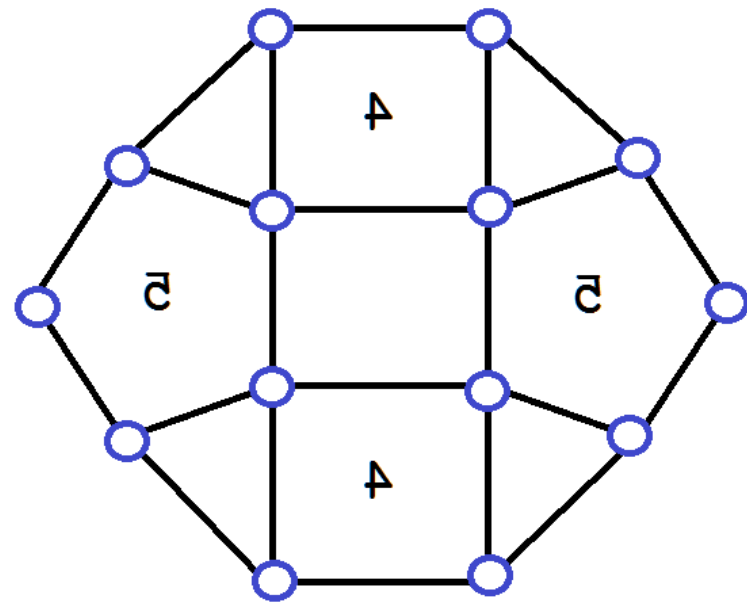
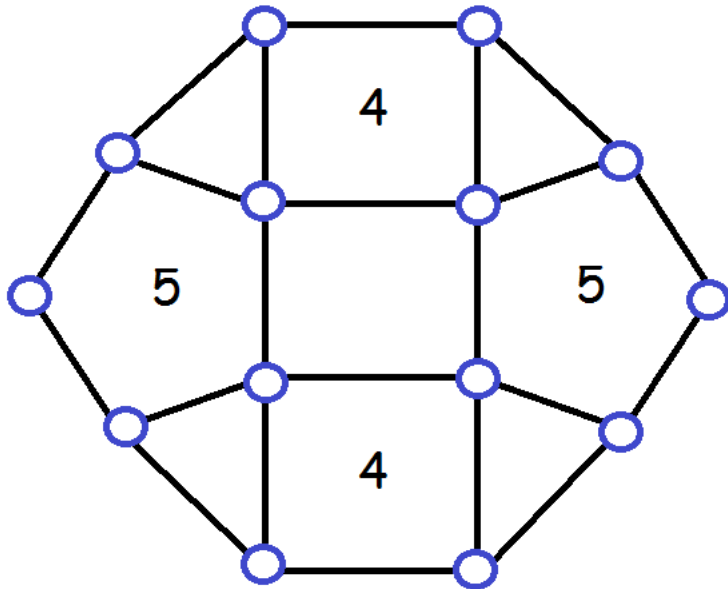
chiral:



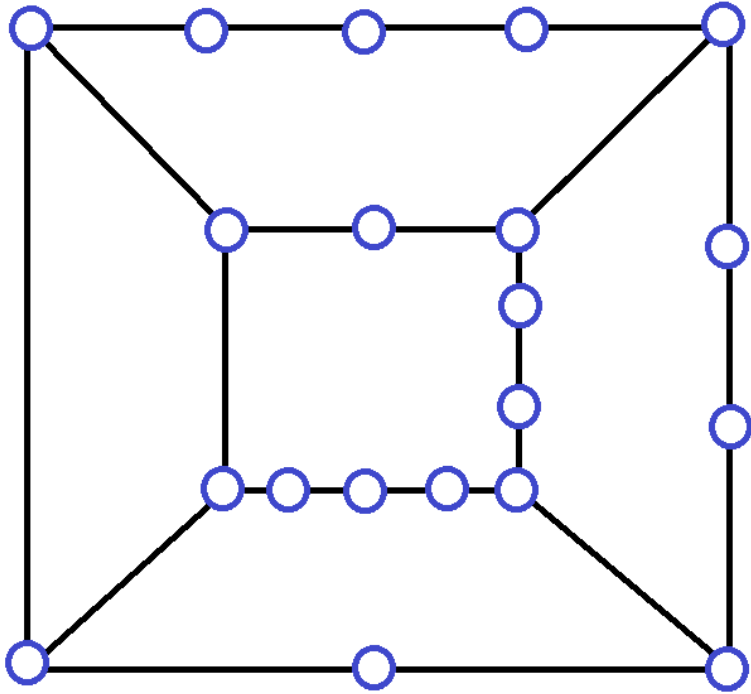
To **flip** an embedding: reverse the order of each of the adjacency lists.

An embedding is **chiral** if there are no automorphisms mapping the embedding to its flip.

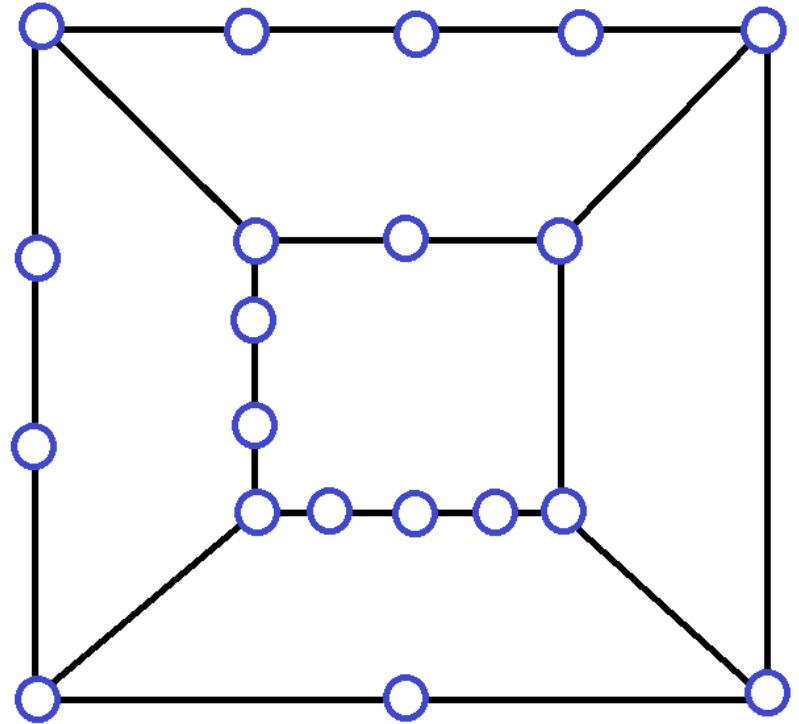
NOT chiral:



Is this embedding chiral or not?



$G$



flip of  $G$