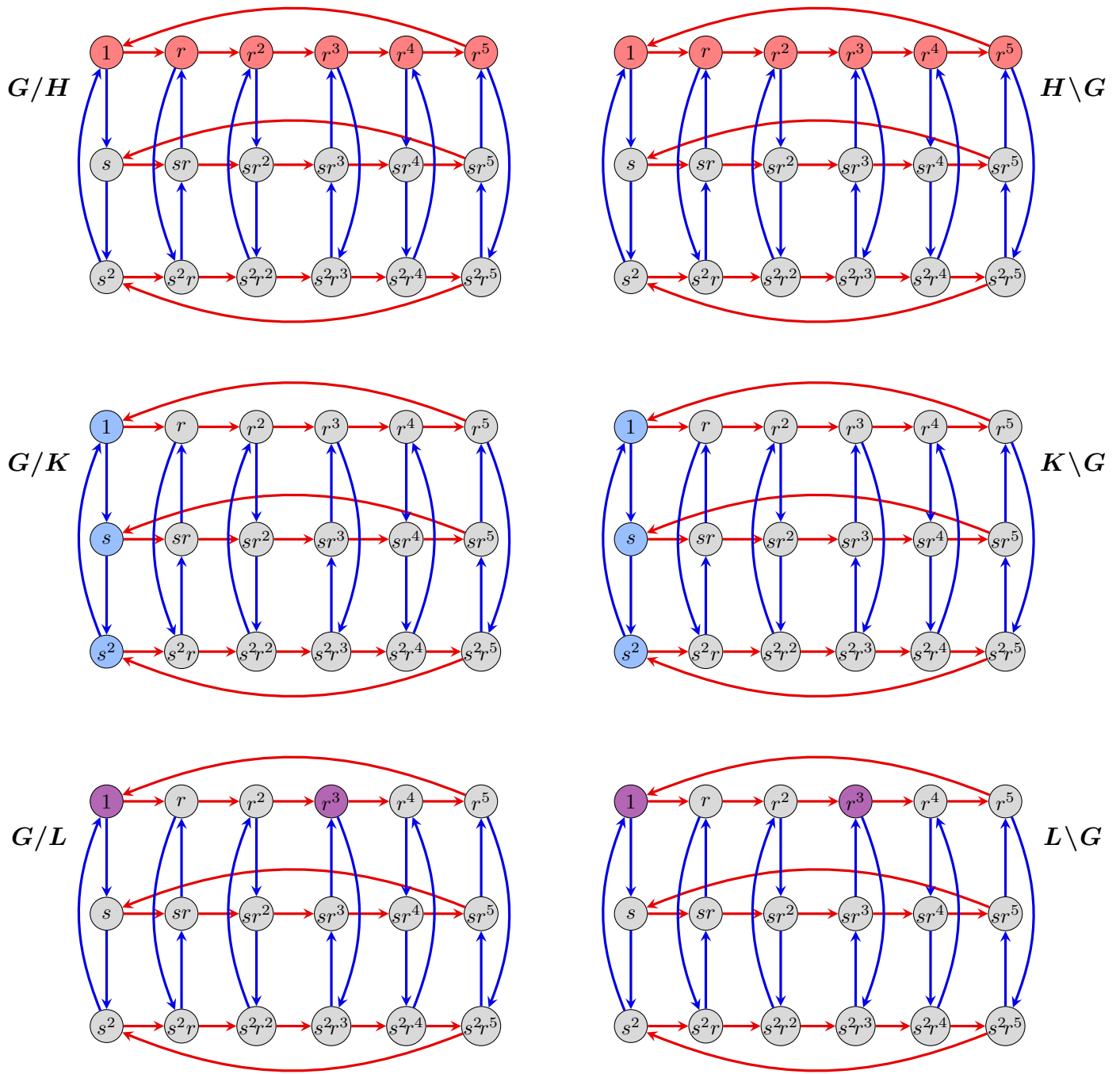
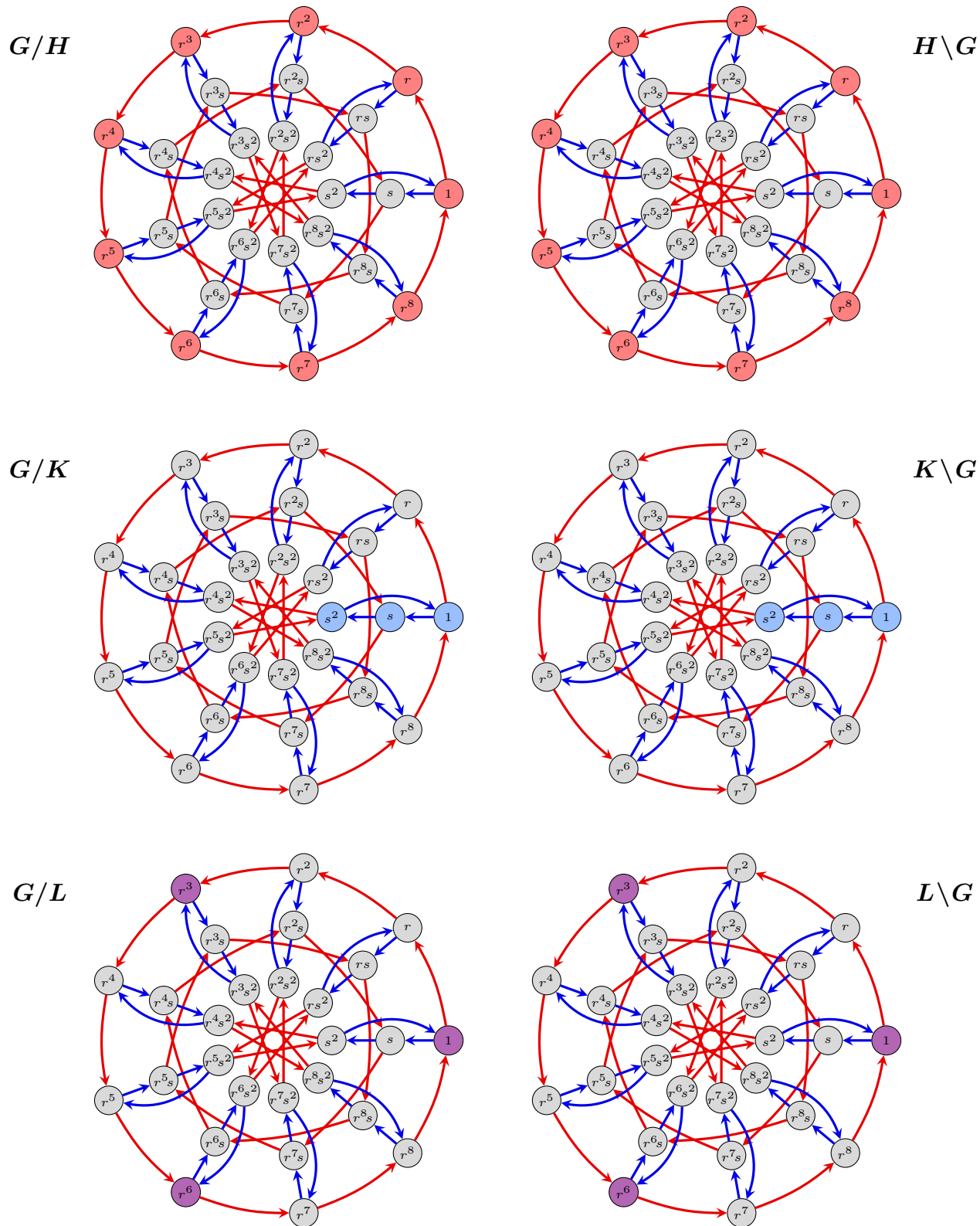


## Supplemental material for Math 8510, HW 2

#1(b): Left and right cosets of the subgroups  $H = \langle r \rangle$ ,  $K = \langle s \rangle$ , and  $L = \langle r^3 \rangle$  in an unknown group  $G$  of order 18.



#1(b): Left and right cosets of the subgroups  $H = \langle r \rangle$ ,  $K = \langle s \rangle$ , and  $L = \langle r^3 \rangle$  in an unknown group  $G$  of order 27.



#5(a): Partition of the subgroups of  $S_4$  into conjugacy classes.

