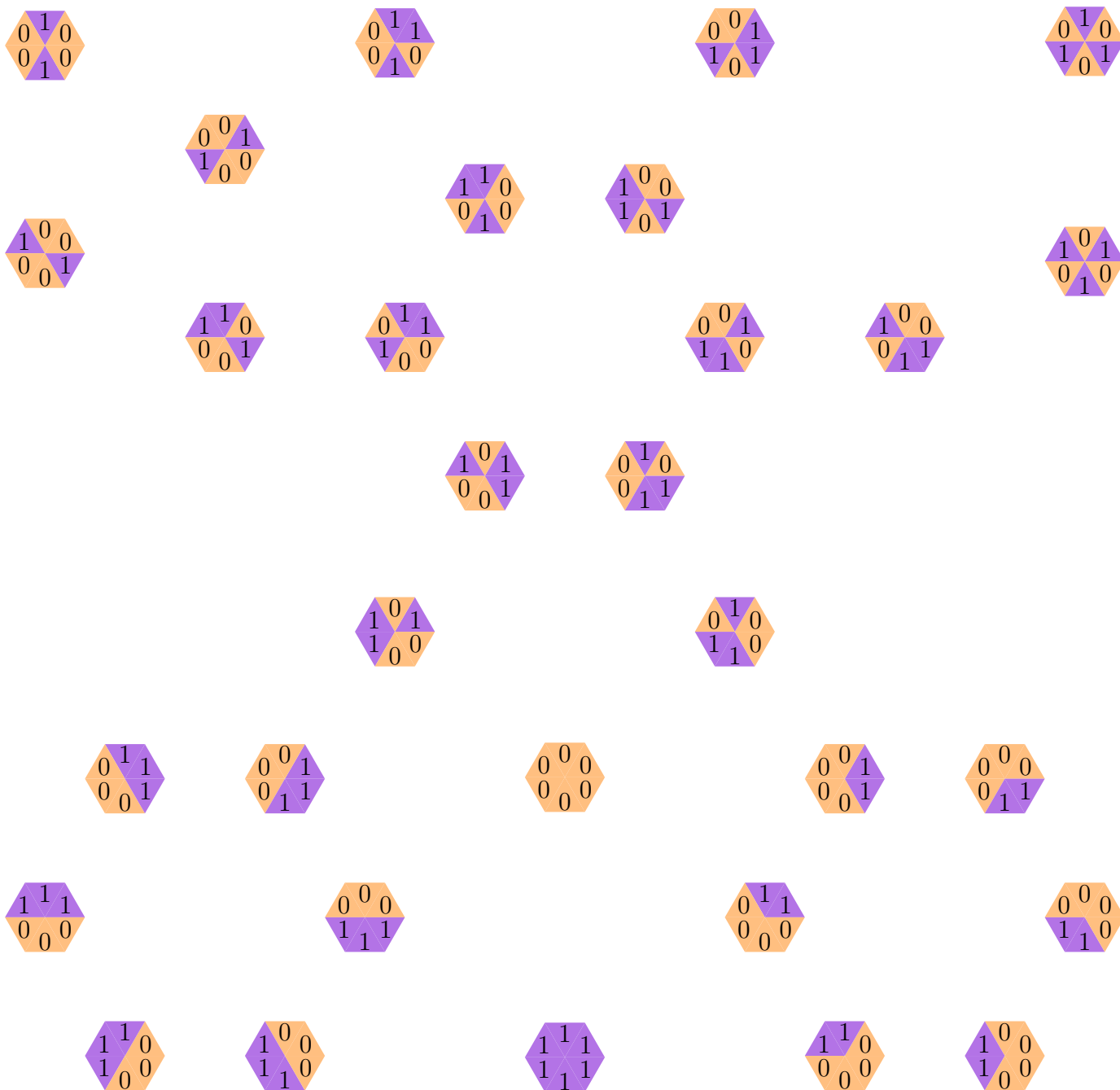
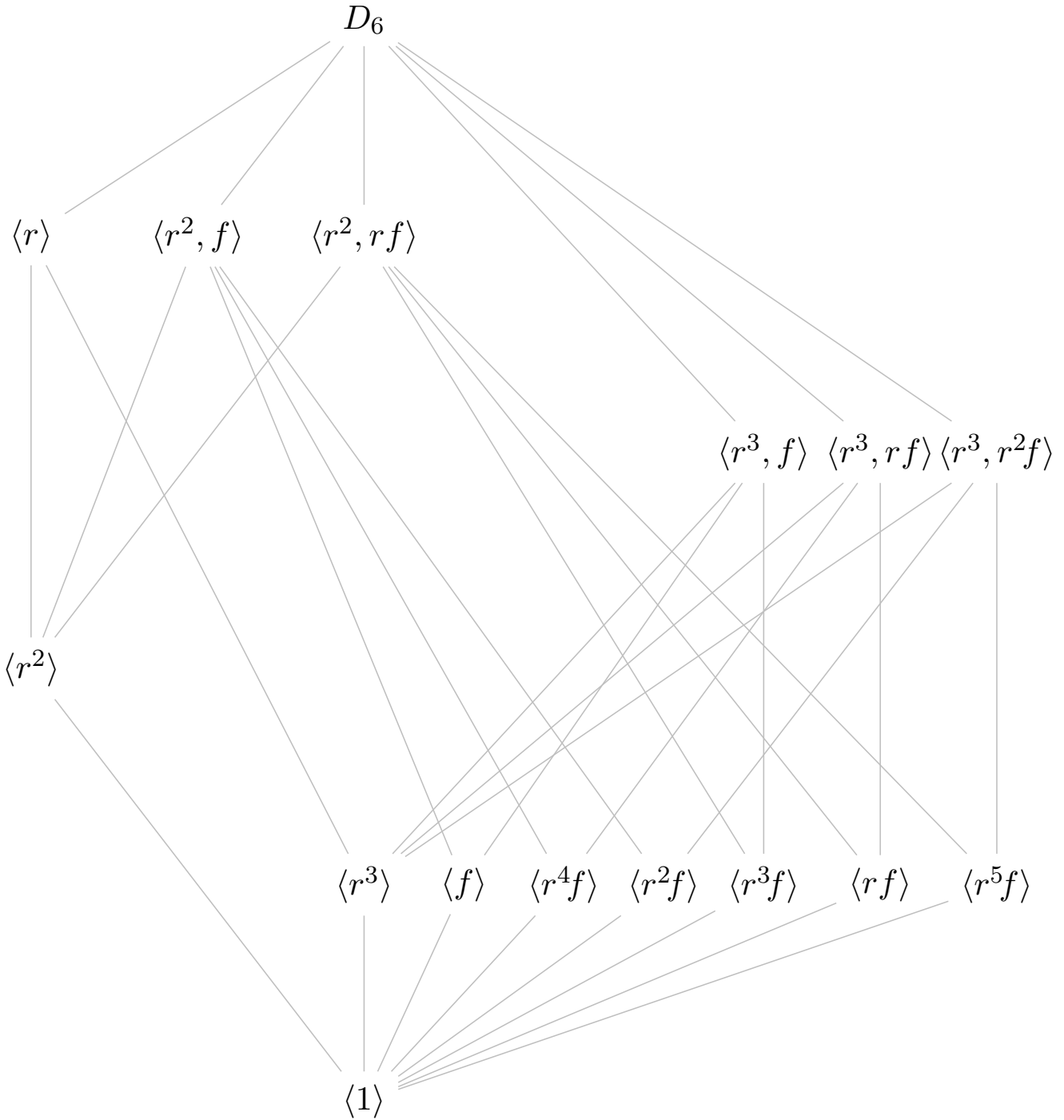


Supplemental material for Visual Algebra (Math 4120), HW 10

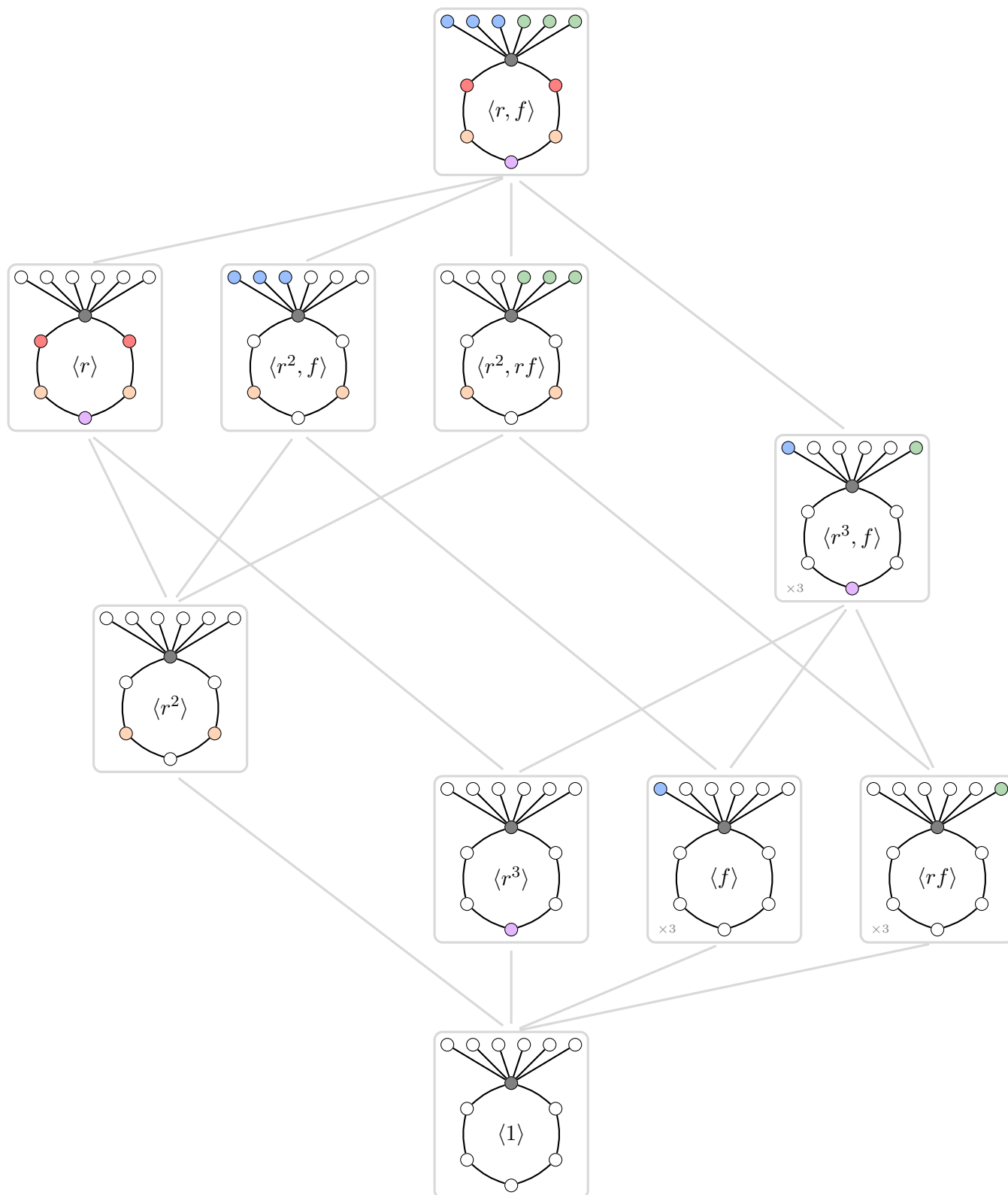
#1(a,c): Action graph of $D_6 = \langle r, f \rangle$ acting on 31 “binary hexagons.”



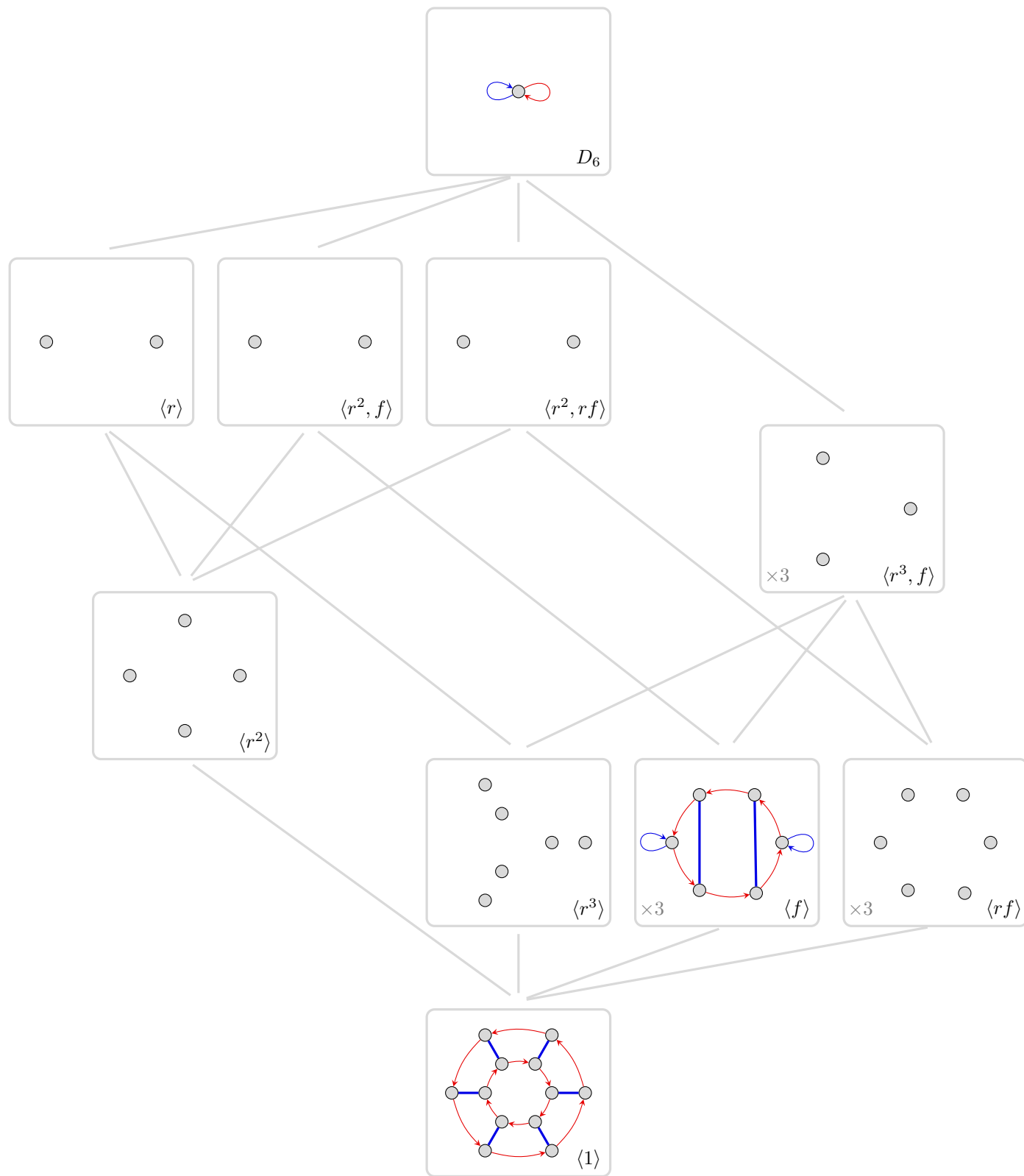
#4(a): Action graph of $D_6 = \langle r, f \rangle$ acting on its subgroups by conjugation.



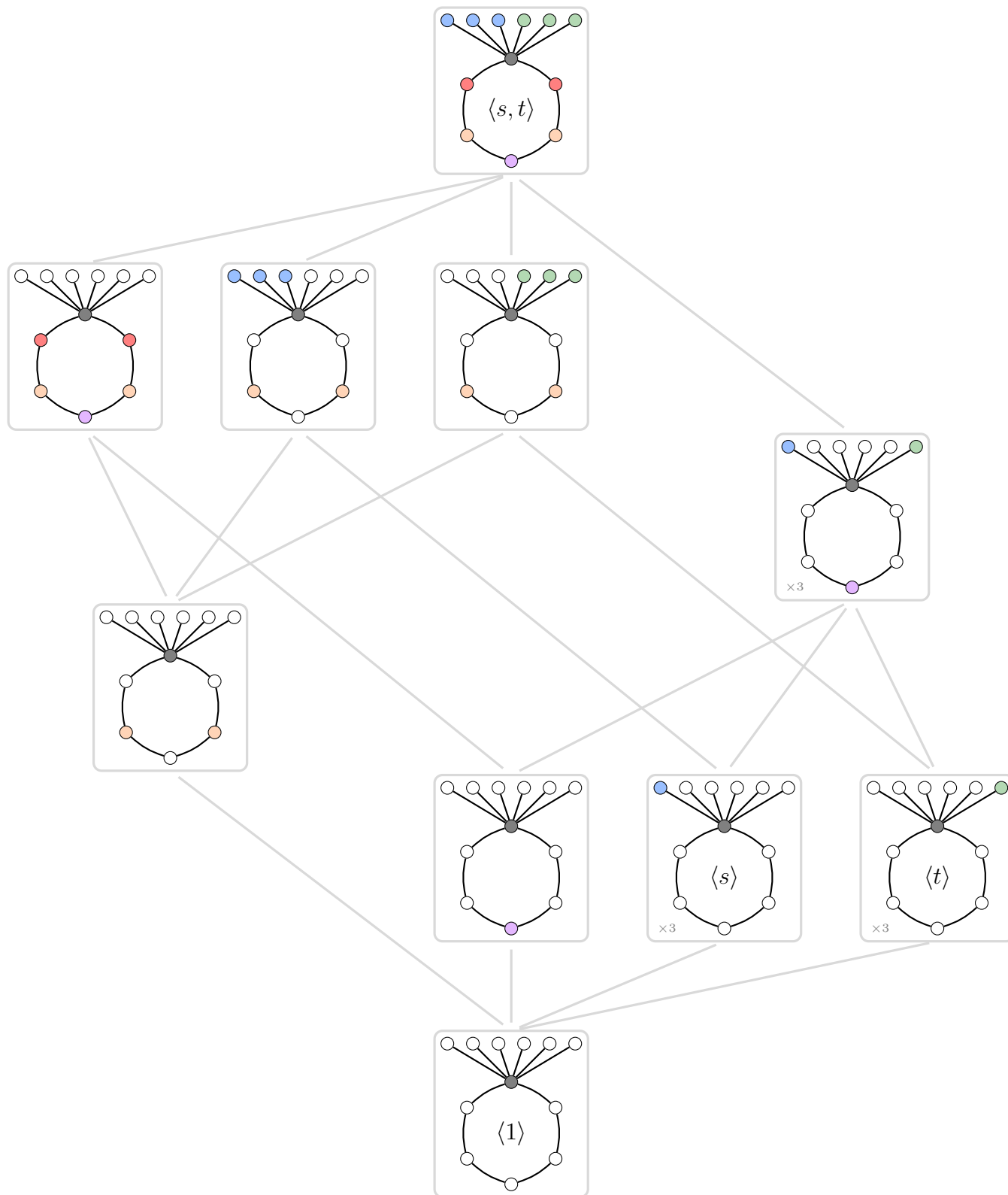
#5(a): The conjugacy poset of $D_6 = \langle r, f \rangle$. Each node is labeled with the cycle graph of one of the subgroups in that conjugacy class. The size of each non-singleton conjugacy class is denoted in the lower-left corner of each box.



#5(a): The action graph poset of $D_6 = \langle r, f \rangle$, constructed by collapsing its Cayley graph by right cosets of its subgroups.



#5(b): The conjugacy poset of $D_6 = \langle s, t \rangle$, where $s = f$ and $t = fr$. Each conjugacy class is labeled with a subgroup that contains it.



#5(b): The action graph poset of $D_6 = \langle s, t \rangle$, where $s = f$ and $t = fr$, constructed by collapsing its Cayley graph by right cosets of its subgroups.

