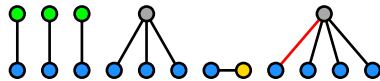


----- g,n: 7,3 graphs: 20 -----
 ----- Euler Characteristic (without resolving relations): $-1V_1^3+2V_1^2 \boxtimes V_1+1V_1 \boxtimes V_2$ -----
 ----- edges: 7 graphs: 3 -----
 ----- A3 case graphs: 3 -----

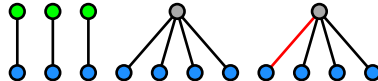
ID: 11 V_1^3
 \mapsto ID 15



ID: 3 V_1^3
 \mapsto ID 5

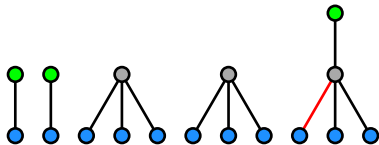


ID: 12 V_1^3
 \mapsto ID 14

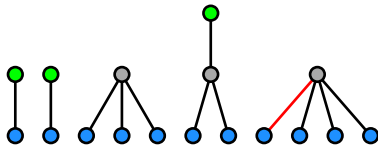


----- edges: 8 graphs: 9 -----
 ----- A3 case graphs: 4 -----

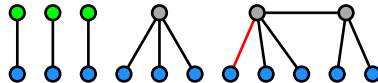
ID: 4 $V_1^2 \boxtimes V_1$
 \mapsto ID 9



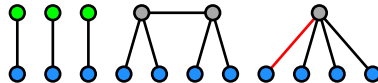
ID: 13 $V_1^2 \boxtimes V_1$
 \mapsto ID 17



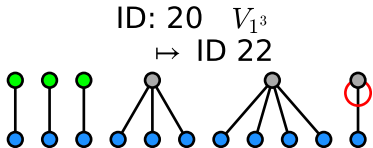
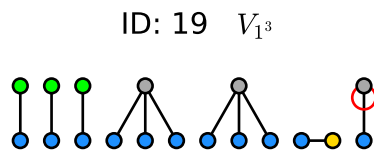
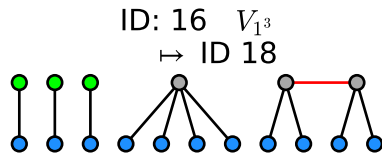
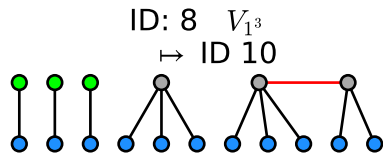
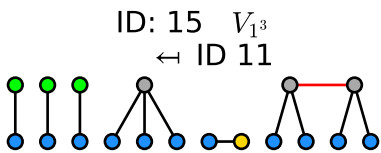
ID: 5 V_1^3
 \leftarrow ID 3



ID: 14 V_1^3
 \leftarrow ID 12



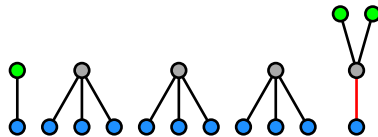
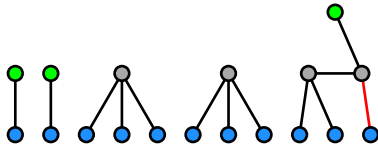
----- B,Birr cases without weight 11 relations graphs: 5 -----



----- edges: 9 graphs: 8 -----
 ----- A2 case with weight 13 relations relation groups: 1 -----

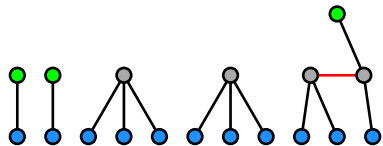
ID: 7 $V_1^2 \boxtimes V_1$

ID: 6 $V_1 \boxtimes V_2$

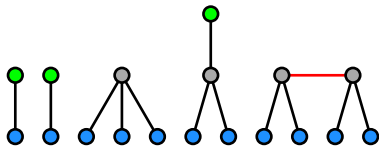


----- B,Birr cases without weight 11 relations graphs: 6 -----

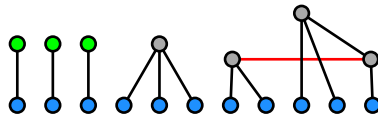
ID: 9 $V_1^2 \boxtimes V_1$
 \leftarrow ID 4



ID: 17 $V_1^2 \boxtimes V_1$
 \leftarrow ID 13



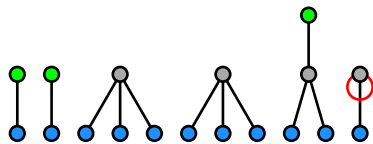
ID: 10 V_1^3
 \leftarrow ID 8



ID: 18 V_1^3
 \leftarrow ID 16



ID: 21 $V_1^2 \boxtimes V_1$



ID: 22 V_1^3
 \leftarrow ID 20

