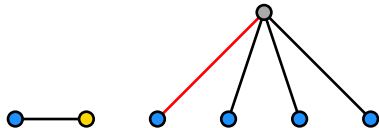
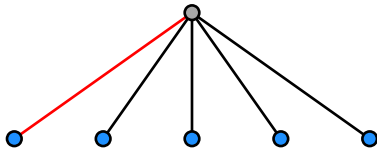


---- excess: 2 (g,n): (1, 12), (3, 9), (5, 6), (7, 3), (9, 0) graphs: 20 ----
 ----- edges: 10-n graphs: 3 -----
 --- A3 case graphs: 3 ---

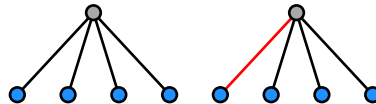
ID: 3 V_1^n
 n: 6 3 0 \mapsto ID 10



ID: 4 V_1^n
 n: 6 3 0 \mapsto ID 8

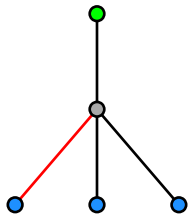


ID: 5 V_1^n
 n: 3 0 \mapsto ID 9

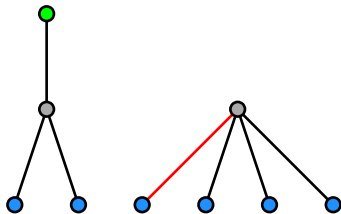


----- edges: 11-n graphs: 9 -----
 --- A3 case graphs: 4 ---

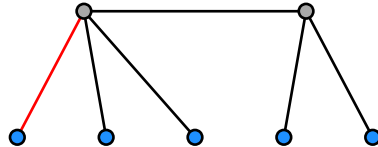
ID: 6 $V_{1^{n-1}} \boxtimes V_1$
 n: 9 6 3 \mapsto ID 17



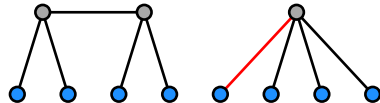
ID: 7 $V_{1^{n-1}} \boxtimes V_1$
 n: 6 3 \mapsto ID 18



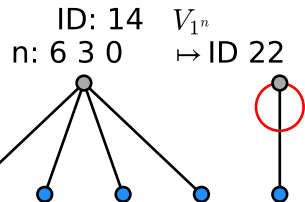
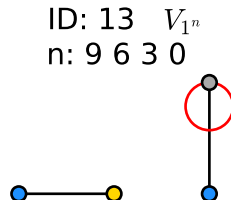
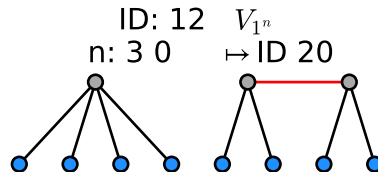
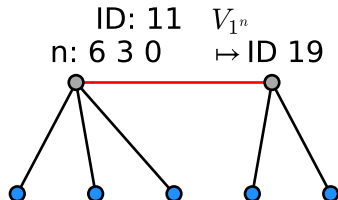
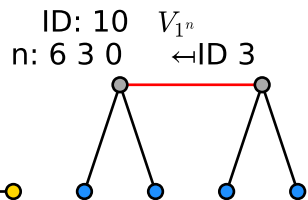
ID: 8 V_{1^n}
 n: 6 3 0 \leftarrow ID 4



ID: 9 V_{1^n}
 n: 3 0 \leftarrow ID 5

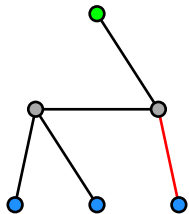


--- B,Birr cases without weight 11 relations graphs: 5 ---

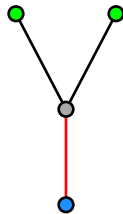


----- edges: 12-n graphs: 8 -----
 --- A2 case with weight 13 relations relation groups: 1 ---

ID: 16 $V_1^{n-1} \boxtimes V_1$
 n: 9 6 3

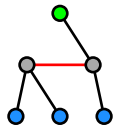


ID: 15 $V_1^{n-2} \boxtimes V_2$
 n: 12 9 6 3

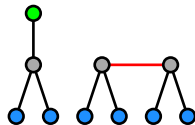


--- B,Birr cases without weight 11 relations graphs: 6 ---

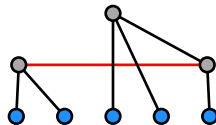
ID: 17 $V_1^{n-1} \boxtimes V_1$
n: 9 6 3 \leftarrow ID 6



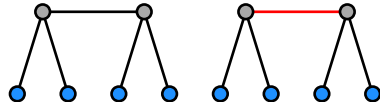
ID: 18 $V_1^{n-1} \boxtimes V_1$
n: 6 3 \leftarrow ID 7



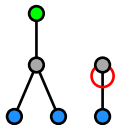
ID: 19 V_1^n
n: 6 3 0 \leftarrow ID 11



ID: 20 V_1^n
n: 3 0 \leftarrow ID 12



ID: 21 $V_1^{n-1} \boxtimes V_1$
n: 9 6 3



ID: 22 V_1^n
n: 6 3 0 \leftarrow ID 14

