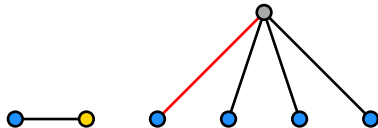
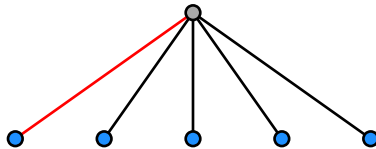


----- excess: 2 (g,n): (1, 12), (3, 9), (5, 6), (7, 3), (9, 0) graphs: 20 -----
 ----- edges: 10-n graphs: 3 -----
 --- A3 case graphs: 3 ---

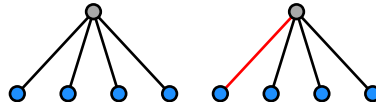
ID: 11 V_1^n
 n: 6 3 0 \mapsto ID 15



ID: 3 V_1^n
 n: 6 3 0 \mapsto ID 5

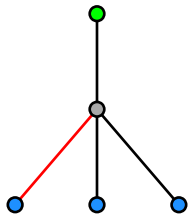


ID: 12 V_1^n
 n: 3 0 \mapsto ID 14

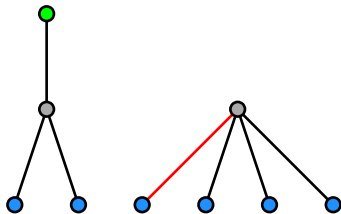


----- edges: 11-n graphs: 9 -----
 --- A3 case graphs: 4 ---

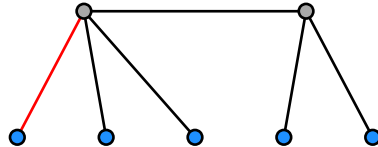
ID: 4 $V_{1^{n-1}} \boxtimes V_1$
 n: 9 6 3 \mapsto ID 9



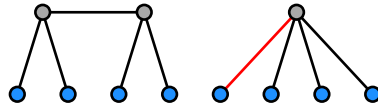
ID: 13 $V_{1^{n-1}} \boxtimes V_1$
 n: 6 3 \mapsto ID 17



ID: 5 V_{1^n}
 n: 6 3 0 \leftarrow ID 3

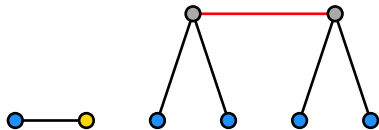


ID: 14 V_{1^n}
 n: 3 0 \leftarrow ID 12

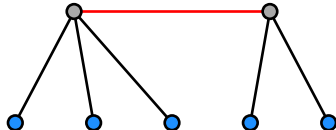


--- B,Birr cases without weight 11 relations graphs: 5 ---

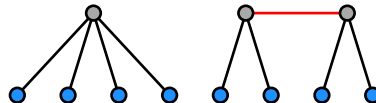
ID: 15 V_1^n
n: 6 3 0 \leftrightarrow ID 11



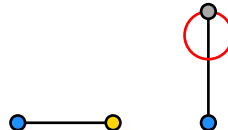
ID: 8 V_1^n
n: 6 3 0 \mapsto ID 10



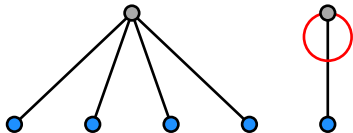
ID: 16 V_1^n
n: 3 0 \mapsto ID 18



ID: 19 V_1^n
n: 9 6 3 0

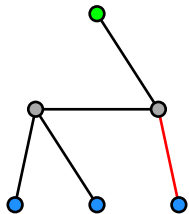


ID: 20 V_1^n
n: 6 3 0 \mapsto ID 22

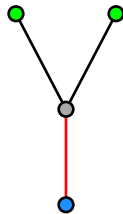


----- edges: 12-n graphs: 8 -----
 --- A2 case with weight 13 relations relation groups: 1 ---

ID: 7 $V_{1^{n-1}} \boxtimes V_1$
 n: 9 6 3

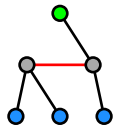


ID: 6 $V_{1^{n-2}} \boxtimes V_2$
 n: 12 9 6 3

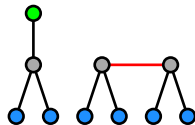


--- B,Birr cases without weight 11 relations graphs: 6 ---

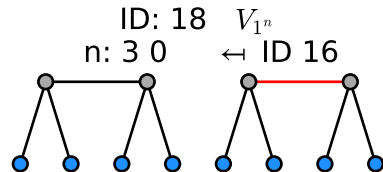
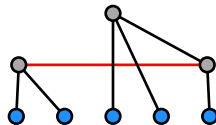
ID: 9 $V_1^{n-1} \boxtimes V_1$
 n: 9 6 3 \leftarrow ID 4



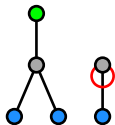
ID: 17 $V_1^{n-1} \boxtimes V_1$
 n: 6 3 \leftarrow ID 13



ID: 10 V_1^n
 n: 6 3 0 \leftarrow ID 8



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



ID: 22 V_1^n
 n: 6 3 0 \leftarrow ID 20

