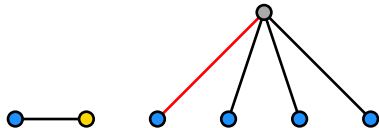
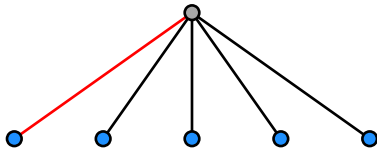


---- excess: 2      (g,n): (1, 12), (3, 9), (5, 6), (7, 3), (9, 0)      graphs: 20 ----  
 ----- edges: 10-n      graphs: 3 -----  
 --- A3 case      graphs: 3 ---

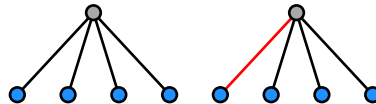
ID: 3     $V_1^n$   
 n: 6 3 0     $\mapsto$  ID 10



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

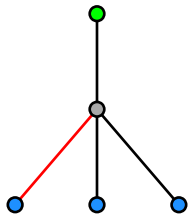


ID: 5     $V_1^n$   
 n: 3 0     $\mapsto$  ID 9

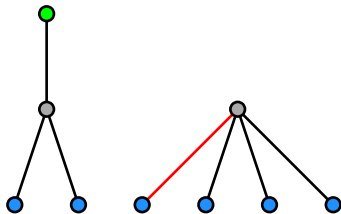


----- edges: 11-n      graphs: 9      -----  
 --- A3 case      graphs: 4      ---

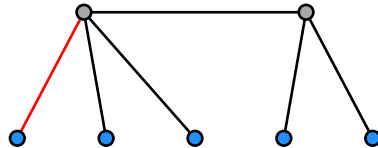
ID: 6     $V_{1^{n-1}} \boxtimes V_1$   
 n: 9 6 3     $\mapsto$  ID 17



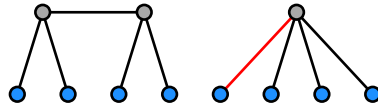
ID: 7     $V_{1^{n-1}} \boxtimes V_1$   
 n: 6 3     $\mapsto$  ID 18



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

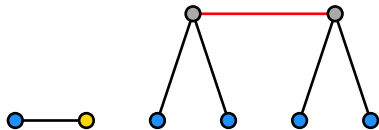


ID: 9     $V_{1^n}$   
 n: 3 0     $\leftarrow$  ID 5

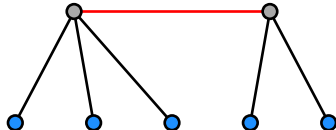


--- B,Birr cases without weight 11 relations      graphs: 5 ---

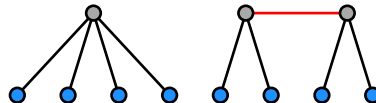
ID: 10     $V_1^n$   
n: 6 3 0     $\leftrightarrow$  ID 3



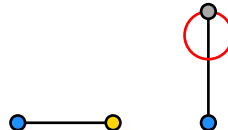
ID: 11     $V_1^n$   
n: 6 3 0     $\mapsto$  ID 19



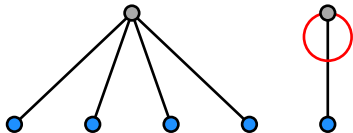
ID: 12     $V_1^n$   
n: 3 0     $\mapsto$  ID 20



ID: 13     $V_1^n$   
n: 9 6 3 0

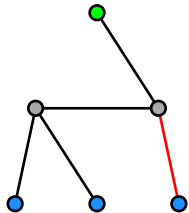


ID: 14     $V_1^n$   
n: 6 3 0     $\mapsto$  ID 22

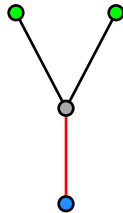


----- edges: 12-n      graphs: 8      -----  
 --- A2 case with weight 13 relations      relation groups: 1 ---

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

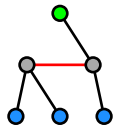


ID: 15     $V_1^{n-2} \boxtimes V_2$   
 n: 12 9 6 3

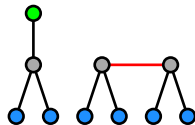


--- B,Birr cases without weight 11 relations      graphs: 6 ---

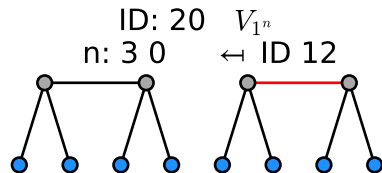
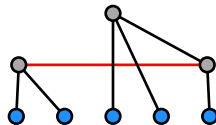
ID: 17     $V_1^{n-1} \boxtimes V_1$   
n: 9 6 3     $\leftarrow$  ID 6



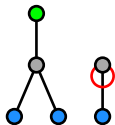
ID: 18     $V_1^{n-1} \boxtimes V_1$   
n: 6 3     $\leftarrow$  ID 7



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



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



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

