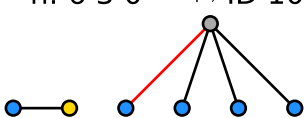
---- excess: 2 (g,n): (1, 12), (3, 9), (5, 6), (7, 3), (9, 0) graphs: 20 eliminated+redundant: 16 ----

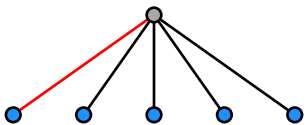
--------- edges: 10-n graphs: 3 ---------

--- A3 case graphs: 3 ---

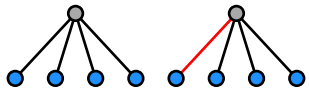
ID: 3 V_{1^n}
n: 6 3 0 $\mapsto$ ID 10



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

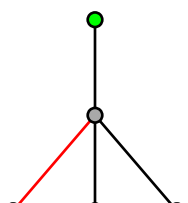


ID: 5 V_{1^n}
n: 3 0 $\mapsto$ ID 9

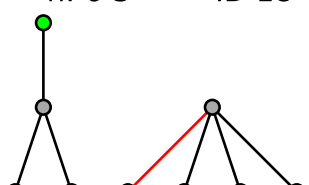


--------- edges: 11-n graphs: 9 ---------
--- A3 case graphs: 4 ---

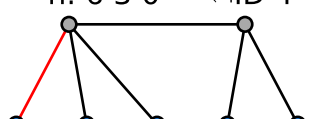
ID: 6 $V_{1^{n-1}} \boxtimes V_1$
n: 9 6 3 $\mapsto$ ID 17



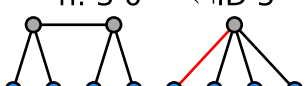
ID: 7 $V_{1^{n-1}} \boxtimes V_1$
n: 6 3 $\mapsto$ ID 18



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

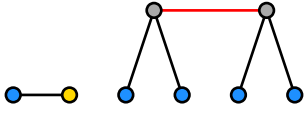


ID: 9 V_{1^n}
n: 3 0 $\mapsto$ ID 5

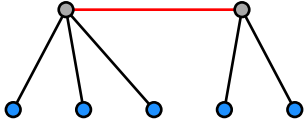


--- B,Birr cases without weight 11 relations graphs: 5 ---

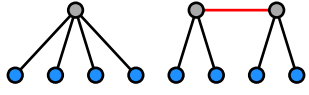
ID: 10 V_{1^n}
n: 6 3 0 ↤ID 3



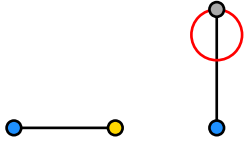
ID: 11 V_{1^n}
n: 6 3 0 ↦ID 19



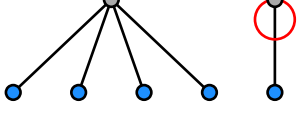
ID: 12 V_{1^n}
n: 3 0 ↦ID 20



ID: 13 V_{1^n}
n: 9 6 3 0

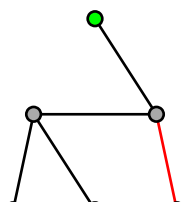


ID: 14 V_{1^n}
n: 6 3 0 ↦ID 22

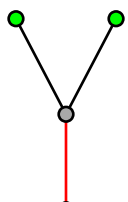


--------- edges: 12-n graphs: 8 ---------
--- A2 case with weight 13 relations relation groups: 1 ---

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

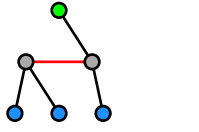


ID: 15 $V_1{}^{n-2} \boxtimes V_2$
n: 12 9 6 3

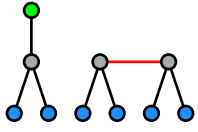


--- B,Birr cases without weight 11 relations graphs: 6 ---

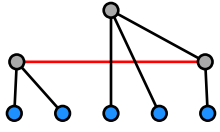
ID: 17 $V_1{}^{n-1} \boxtimes V_1$
n: 9 6 3 ↤ID 6



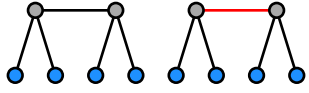
ID: 18 $V_1{}^{n-1} \boxtimes V_1$
n: 6 3 ↤ID 7



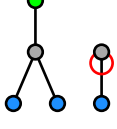
ID: 19 $V_1{}^{n}$
n: 6 3 0 ↤ID 11



ID: 20 $V_1{}^{n}$
n: 3 0 ↤ID 12



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



ID: 22 $V_1{}^{n}$
n: 6 3 0 ↤ID 14