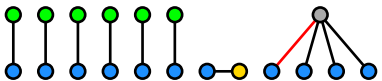
------- g,n: 5,6 graphs: 16 eliminated: 12 ------- Euler Characteristic (without resolving relations):

--------- $1V_{1^6} - 2V_{1^5} \boxtimes V_1 - 1V_{1^4} \boxtimes V_2$ ---------

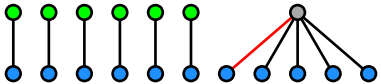
--------- edges: 4 graphs: 2 ---------

------- A3 case graphs: 2 -------

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

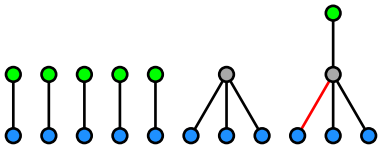


ID: 4 V_{1^6} $\mapsto$ ID 8

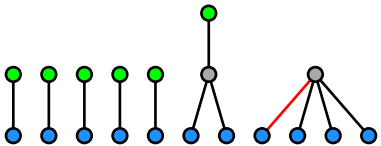


--------- edges: 5 graphs: 7 ---------
------- A3 case graphs: 3 -------

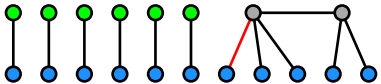
ID: 6 $V_1{}^5 \boxtimes V_1$
$\mapsto$ ID 17



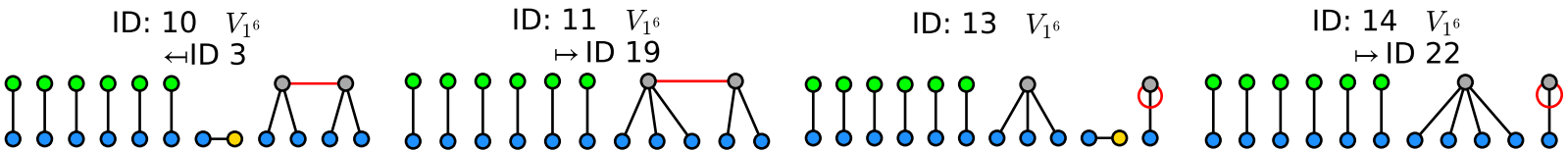
ID: 7 $V_1{}^5 \boxtimes V_1$
$\mapsto$ ID 18



ID: 8 $V_1{}^6$
$\mapsto$ ID 4

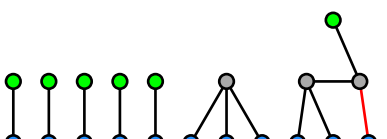


------- B,Birr cases without weight 11 relations graphs: 4 -------

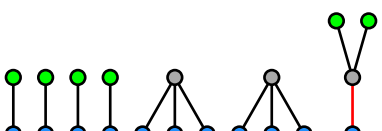


--------- edges: 6 graphs: 7 ---------
------- A2 case with weight 13 relations relation groups: 1 -------

ID: 16 $V_{1^5} \boxtimes V_1$

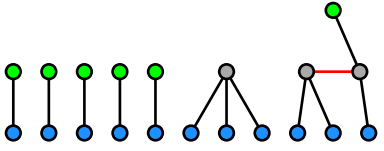


ID: 15 $V_{1^4} \boxtimes V_2$

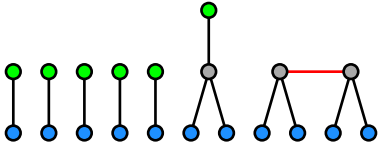


------- B,Birr cases without weight 11 relations graphs: 5 -------

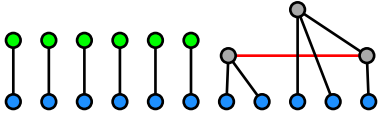
ID: 17 $V_1{}^5 \boxtimes V_1$
↤ID 6



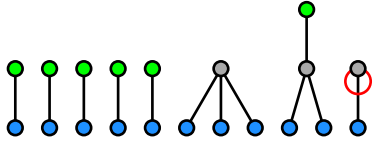
ID: 18 $V_1{}^5 \boxtimes V_1$
↤ID 7



ID: 19 $V_1{}^6$
↤ID 11



ID: 21 $V_1{}^5 \boxtimes V_1$



ID: 22 $V_1{}^6$
↤ID 14