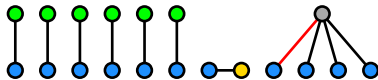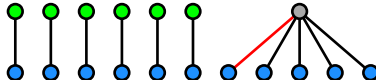---------- g,n: 5,6   graphs: 16   ----------

------ 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: 11 V_{1^6}
$\mapsto$ ID 15
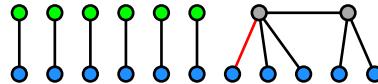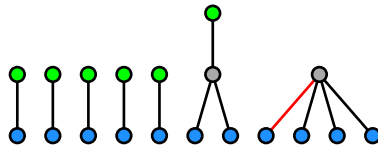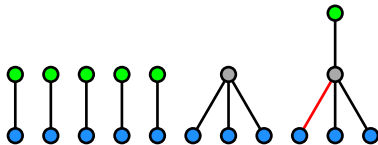
ID: 3 V_{1^6}
$\mapsto$ ID 5

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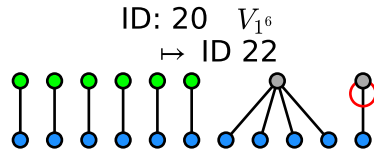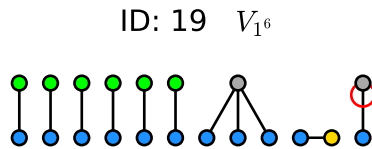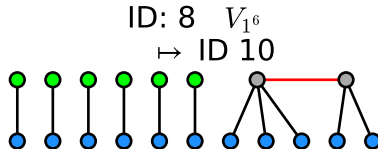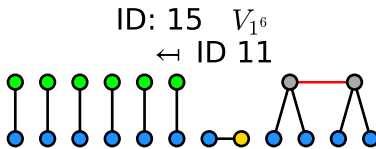------- A3 case   graphs: 3 -------

ID: 4 $V_{1^5} \boxtimes V_1$
$\mapsto$ ID 9

ID: 13 $V_{1^5} \boxtimes V_1$
$\mapsto$ ID 17

ID: 5 V_{1^6}
$\hookleftarrow$ ID 3

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

ID: 15 V_{1^6}
$\leftarrow$ ID 11

ID: 8 V_{1^6}
$\mapsto$ ID 10

ID: 19 V_{1^6}

ID: 20 V_{1^6}
$\mapsto$ ID 22

--------- edges: 6 graphs: 7 ---------
------- A2 case with weight 13 relations relation groups: 1 -------
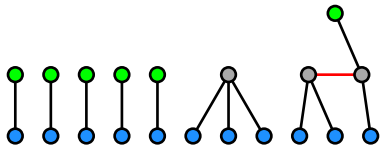
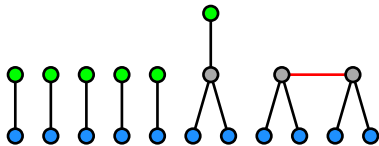ID: 7 $V_{1^5} \boxtimes V_1$

ID: 6 $V_{1^4} \boxtimes V_2$
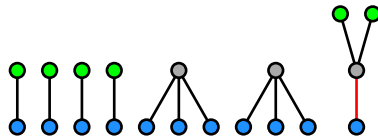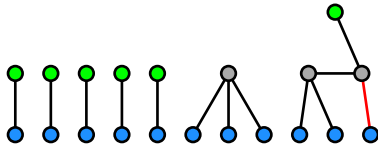
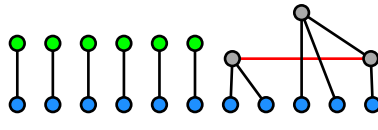------- B,Birr cases without weight 11 relations   graphs: 5 -------
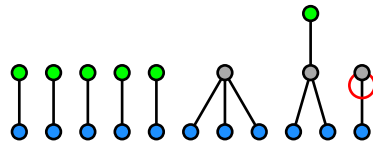
ID: 9 $V_{1^5} \boxtimes V_1$
← ID 4

ID: 17 $V_{1^5} \boxtimes V_1$
← ID 13

ID: 10 V_{1^6}
← ID 8

ID: 21 $V_{1^5} \boxtimes V_1$

ID: 22 V_{1^6}
← ID 20