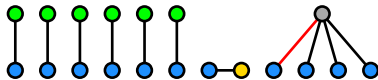
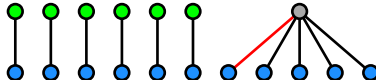


----- g,n: 5,6      graphs: 16      -----  
 ----- Euler Characteristic (without resolving relations):  $1V_1^6 - 2V_1^5 \boxtimes V_1 - 1V_1^4 \boxtimes V_2$  -----  
 ----- edges: 4      graphs: 2      -----  
 ----- A3 case      graphs: 2      -----

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

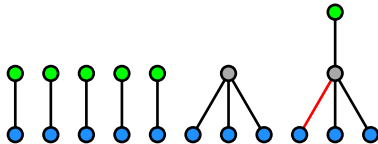


ID: 4  $V_1^6$   
 $\mapsto$  ID 8

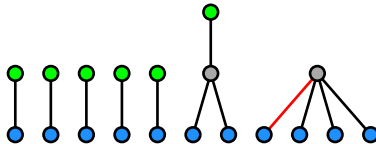


----- edges: 5      graphs: 7      -----  
 ----- A3 case      graphs: 3      -----

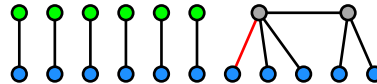
ID: 6     $V_1^5 \boxtimes V_1$   
 $\mapsto$  ID 17



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

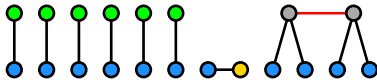


ID: 8     $V_1^6$   
 $\leftarrow$  ID 4

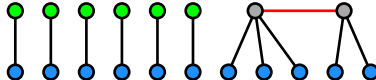


----- B,Birr cases without weight 11 relations      graphs: 4 -----

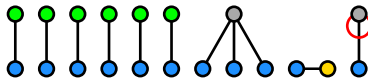
ID: 10     $V_1^6$   
 $\leftarrow$  ID 3



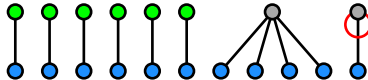
ID: 11     $V_1^6$   
 $\mapsto$  ID 19



ID: 13     $V_1^6$



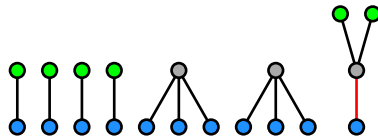
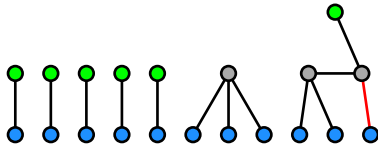
ID: 14     $V_1^6$   
 $\mapsto$  ID 22



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

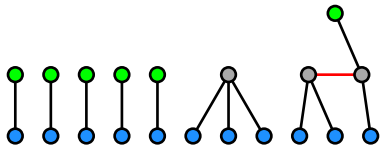
ID: 16     $V_1^5 \boxtimes V_1$

ID: 15     $V_1^4 \boxtimes V_2$

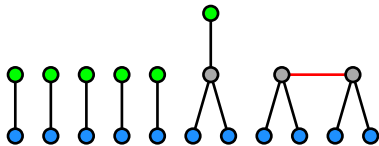


----- B,Birr cases without weight 11 relations      graphs: 5 -----

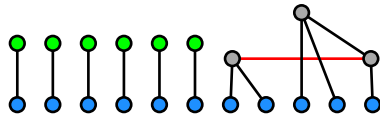
ID: 17     $V_1^5 \boxtimes V_1$   
 $\leftarrow$  ID 6



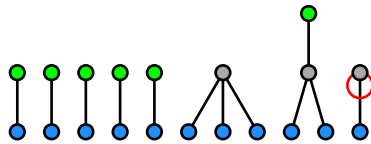
ID: 18     $V_1^5 \boxtimes V_1$   
 $\leftarrow$  ID 7



ID: 19     $V_1^6$   
 $\leftarrow$  ID 11



ID: 21     $V_1^5 \boxtimes V_1$



ID: 22     $V_1^6$   
 $\leftarrow$  ID 14

