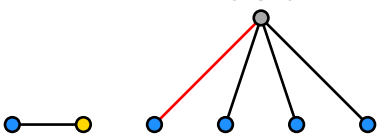
---------- excess: 2 (g,n): (1, 12), (3, 9), (5, 6), (7, 3), (9, 0) graphs: 20 ----------

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

--- A3 case graphs: 3 ---

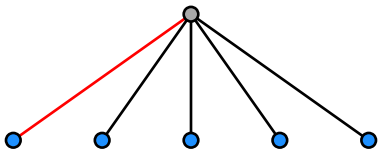
V_{1^n}

ID: 11 n: 6 3 0



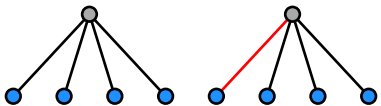
V_{1^n}

ID: 3 n: 6 3 0



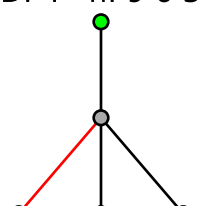
V_{1^n}

ID: 12 n: 3 0

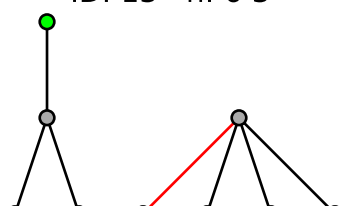


--------- edges: 11-n graphs: 9 ---------
--- A3 case graphs: 4 ---

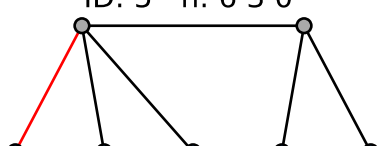
$V_1{}^{n-1} \boxtimes V_1$
ID: 4 n: 9 6 3



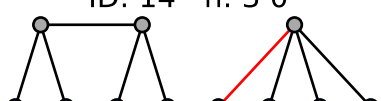
$V_1{}^{n-1} \boxtimes V_1$
ID: 13 n: 6 3



$V_1{}^{n}$
ID: 5 n: 6 3 0



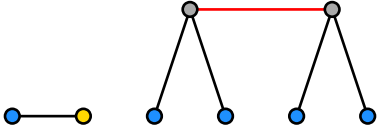
$V_1{}^{n}$
ID: 14 n: 3 0



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

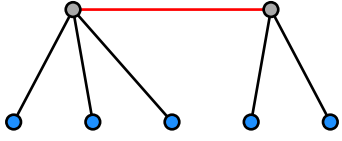
V_{1^n}

ID: 15 n: 6 3 0



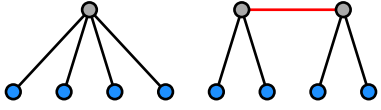
V_{1^n}

ID: 8 n: 6 3 0



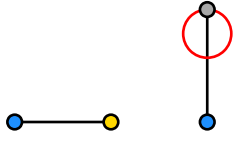
V_{1^n}

ID: 16 n: 3 0



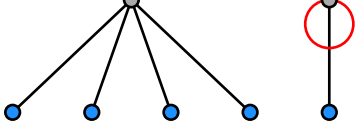
V_{1^n}

ID: 19 n: 9 6 3 0



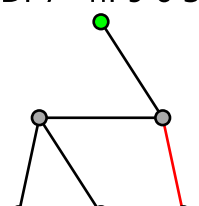
V_{1^n}

ID: 20 n: 6 3 0

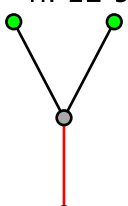


--------- edges: 12-n graphs: 8 ---------
--- A2 case with weight 13 relations relation groups: 1 ---

$V_1{}^{n-1} \boxtimes V_1$
ID: 7 n: 9 6 3

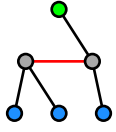


$V_1{}^{n-2} \boxtimes V_2$
ID: 6 n: 12 9 6 3

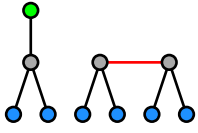


--- B,Birr cases without weight 11 relations graphs: 6 ---

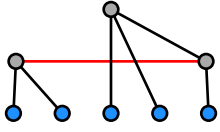
$V_1{}^{n-1} \boxtimes V_1$
ID: 9 n: 9 6 3



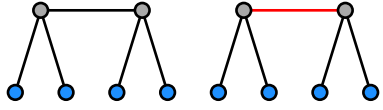
$V_1{}^{n-1} \boxtimes V_1$
ID: 17 n: 6 3



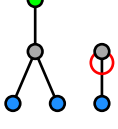
$V_1{}^{n}$
ID: 10 n: 6 3 0



$V_1{}^{n}$
ID: 18 n: 3 0



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



$V_1{}^{n}$
ID: 22 n: 6 3 0