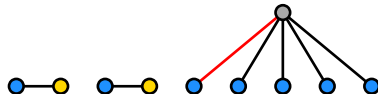


---- excess: 4 (g,n): (1, 13), (3, 10), (5, 7), (7, 4), (9, 1) graphs: 490 ----
 ----- edges: 10-n graphs: 10 -----
 --- A3 case graphs: 10 ---

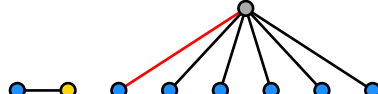
ID: 129 V_{1^n}
n: 4 1



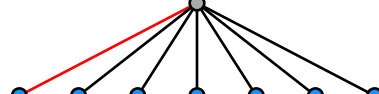
ID: 130 V_{1^n}
n: 4 1



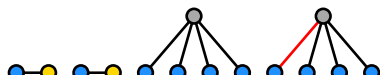
ID: 131 V_{1^n}
n: 4 1



ID: 132 V_{1^n}
n: 4 1



ID: 133 V_{1^n}
n: 1



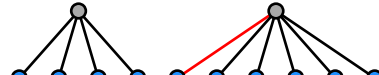
ID: 134 V_{1^n}
n: 1



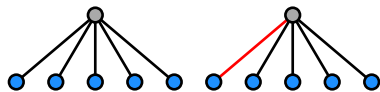
ID: 135 V_{1^n}
n: 1



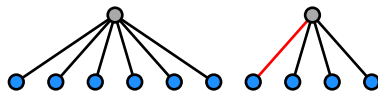
ID: 136 V_{1^n}
n: 1



ID: 137 V_{1^n}
n: 1

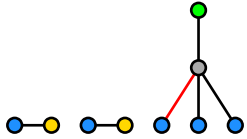


ID: 138 V_{1^n}
n: 1

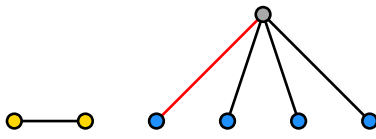


----- edges: 11-n graphs: 64 -----
 --- A3 case graphs: 45 ---

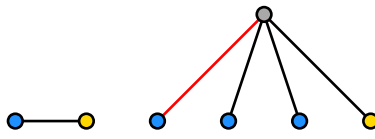
ID: 139 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



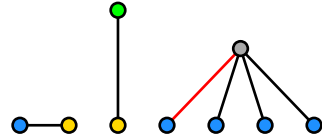
ID: 140 V_1^n
 n: 7 4 1



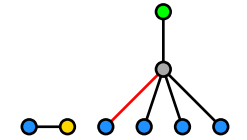
ID: 141 V_1^n
 n: 7 4 1



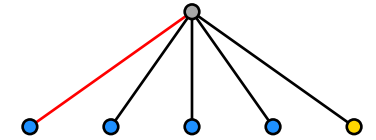
ID: 142 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



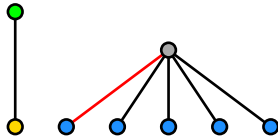
ID: 143 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



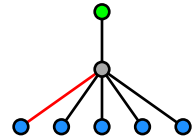
ID: 144 V_1^n
 n: 7 4 1



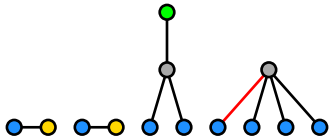
ID: 145 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



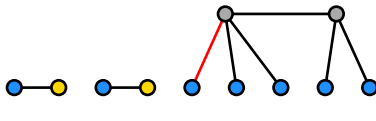
ID: 146 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



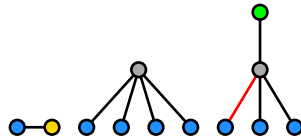
ID: 147 $V_1^{n-1} \boxtimes V_1$
 n: 4 1



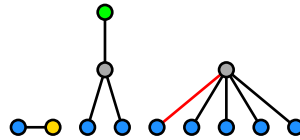
ID: 148 V_1^n
 n: 4 1



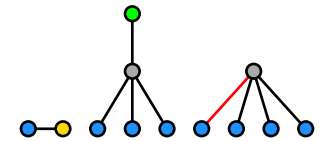
ID: 149 $V_1^{n-1} \boxtimes V_1$
 n: 4 1



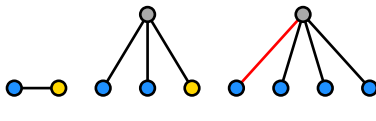
ID: 150 $V_1^{n-1} \boxtimes V_1$
 n: 4 1



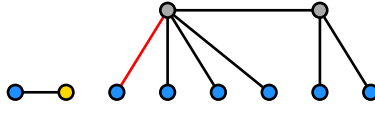
ID: 151 $V_1^{n-1} \boxtimes V_1$
 n: 4 1



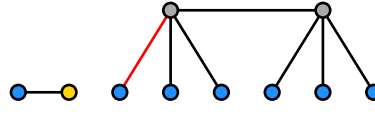
ID: 152 V_1^n
 n: 4 1



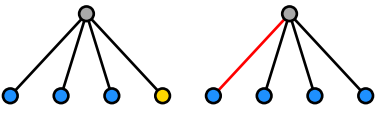
ID: 153 V_1^n
 n: 4 1



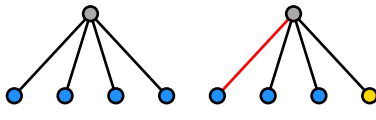
ID: 154 V_1^n
 n: 4 1



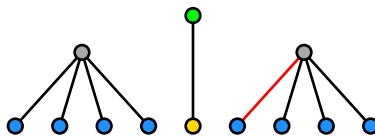
ID: 155 V_1^n
 n: 4 1



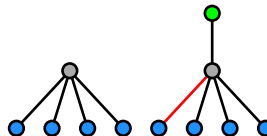
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 n: 4 1



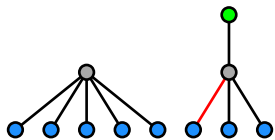
ID: 157 $V_1^{n-1} \boxtimes V_1$
 n: 4 1



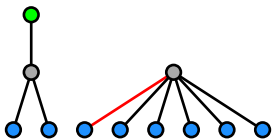
ID: 158 $V_1^{n-1} \boxtimes V_1$
 n: 4 1



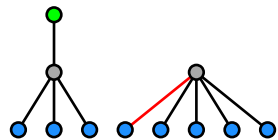
ID: 159 $V_1^{n-1} \boxtimes V_1$
 n: 4 1



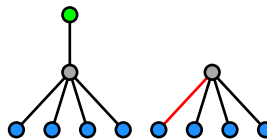
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 n: 4 1



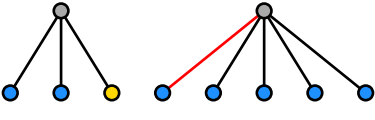
ID: 161 $V_1^{n-1} \boxtimes V_1$
 n: 4 1



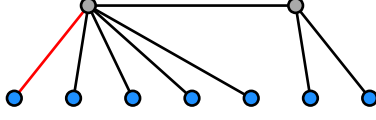
ID: 162 $V_1^{n-1} \boxtimes V_1$
 n: 4 1



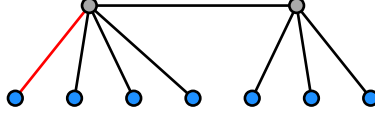
ID: 163 V_1^n
 n: 4 1



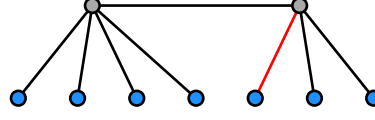
ID: 164 V_1^n
 n: 4 1



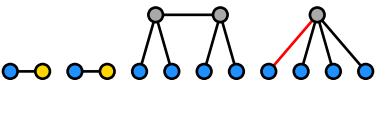
ID: 165 V_1^n
 n: 4 1



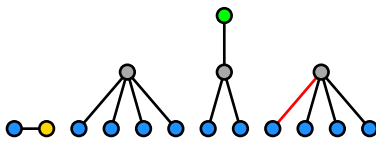
ID: 166 V_1^n
 n: 4 1



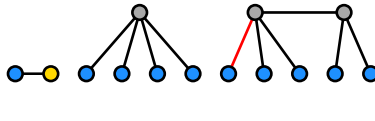
ID: 167 V_1^n
 n: 1



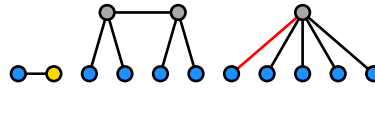
ID: 168 $V_1^{n-1} \boxtimes V_1$
 n: 1



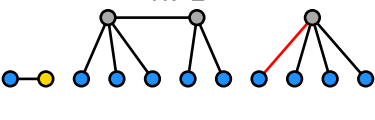
ID: 169 V_1^n
 n: 1



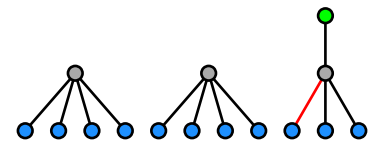
ID: 170 V_1^n
 n: 1



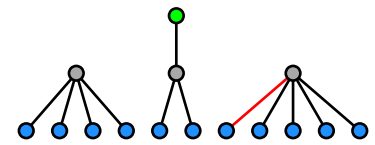
ID: 171 V_1^n
 n: 1



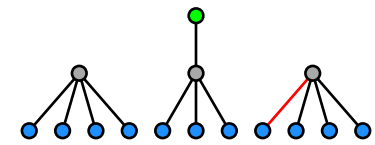
ID: 172 $V_1^{n-1} \boxtimes V_1$
 n: 1



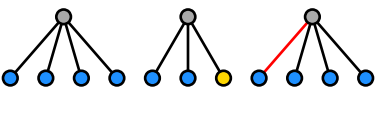
ID: 173 $V_1^{n-1} \boxtimes V_1$
 n: 1



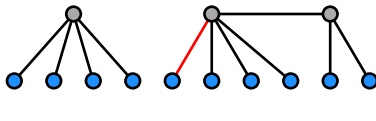
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 n: 1



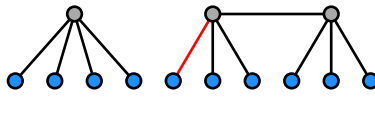
ID: 175 V_1^n
 n: 1



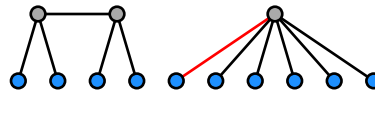
ID: 176 V_1^n
 n: 1



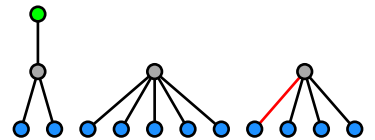
ID: 177 V_1^n
 n: 1



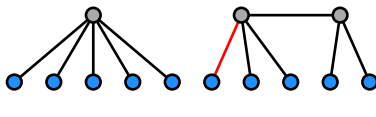
ID: 178 V_1^n
 n: 1



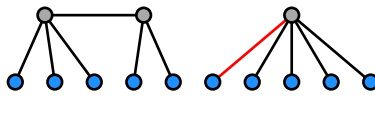
ID: 179 $V_1^{n-1} \boxtimes V_1$
 n: 1



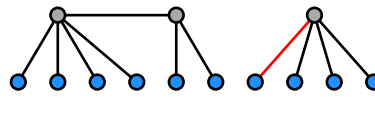
ID: 180 V_1^n
 n: 1



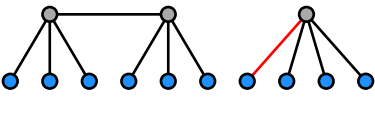
ID: 181 V_1^n
 n: 1



ID: 182 V_1^n
 n: 1

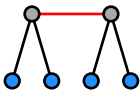


ID: 183 V_1^n
 n: 1

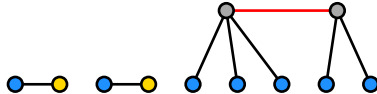


--- B,Birr cases without weight 11 relations graphs: 19 ---

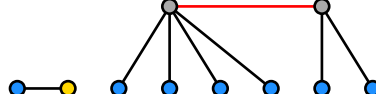
ID: 184 V_1^n
n: 4 1



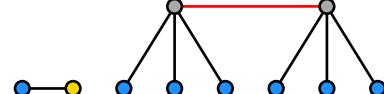
ID: 185 V_1^n
n: 4 1



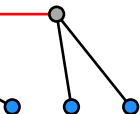
ID: 186 V_1^n
n: 4 1



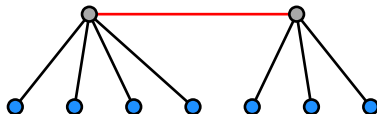
ID: 187 V_1^n
n: 4 1



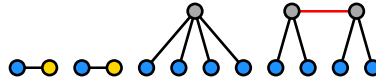
ID: 188 V_1^n
n: 4 1



ID: 189 V_1^n
n: 4 1



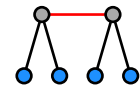
ID: 190 V_1^n
n: 1



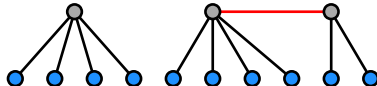
ID: 193 V_1^n
n: 1



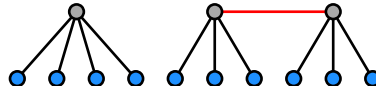
ID: 191 V_1^n
n: 1



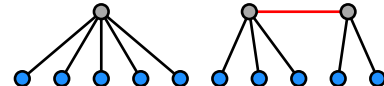
ID: 195 V_1^n
n: 1



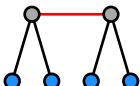
ID: 196 V_1^n
n: 1



ID: 194 V_1^n
n: 1



ID: 192 V_1^n
n: 1



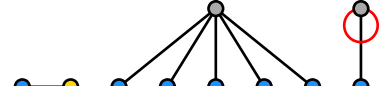
ID: 197 V_1^n
n: 7 4 1



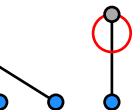
ID: 198 V_1^n
n: 4 1



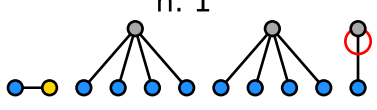
ID: 199 V_1^n
n: 4 1



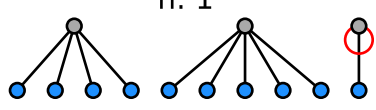
ID: 200 V_1^n
n: 4 1



ID: 201 V_1^n
n: 1

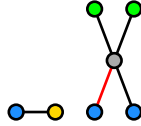


ID: 202 V_1^n
n: 1

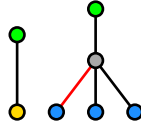


----- edges: 12-n graphs: 165
 --- A3 case graphs: 66

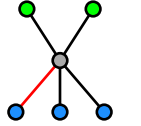
ID: 203 $V_1^{n-2} \boxtimes V_2$
 n: 10 7 4



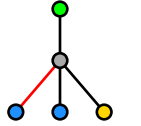
ID: 204 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
 n: 10 7 4



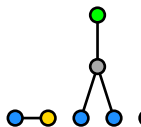
ID: 205 $V_1^{n-2} \boxtimes V_2$
 n: 10 7 4



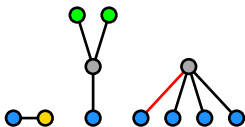
ID: 206 $V_1^{n-1} \boxtimes V_1$
 n: 10 7 4 1



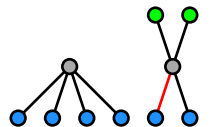
ID: 207 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
 n: 7 4



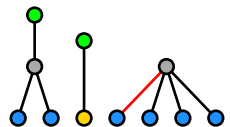
ID: 208 $V_1^{n-2} \boxtimes V_2$
 n: 7 4



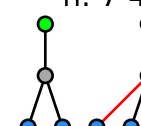
ID: 209 $V_1^{n-2} \boxtimes V_2$
 n: 7 4



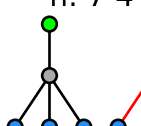
ID: 210 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
 n: 7 4



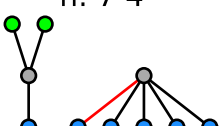
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 n: 7 4



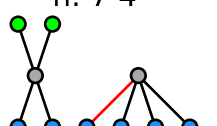
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 n: 7 4



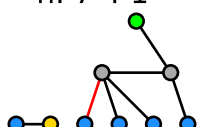
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 n: 7 4



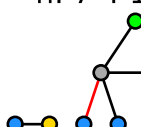
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 n: 7 4



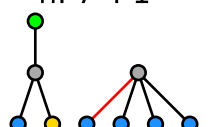
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 n: 7 4 1



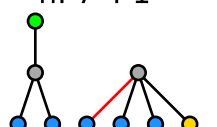
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 n: 7 4 1



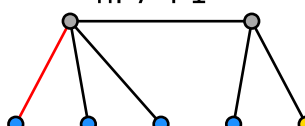
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 n: 7 4 1



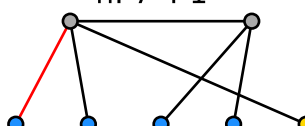
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 n: 7 4 1



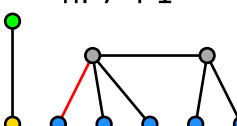
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 n: 7 4 1



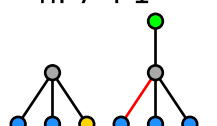
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 n: 7 4 1



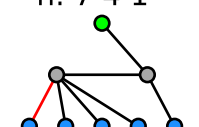
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 n: 7 4 1



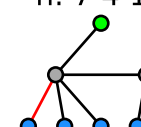
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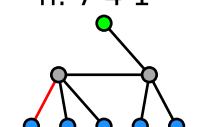
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 n: 7 4 1



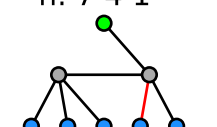
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 n: 7 4 1



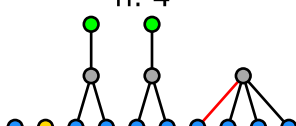
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 n: 7 4 1



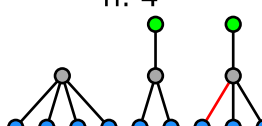
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 n: 7 4 1



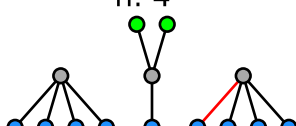
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 n: 4



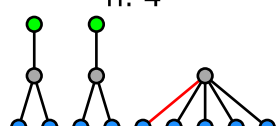
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 n: 4



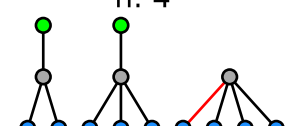
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 n: 4



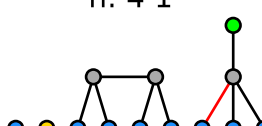
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 n: 4



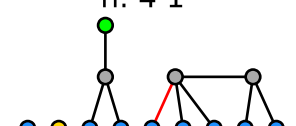
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 n: 4



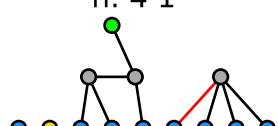
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 n: 4 1



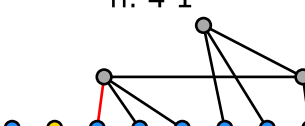
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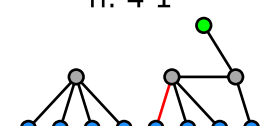
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 n: 4 1



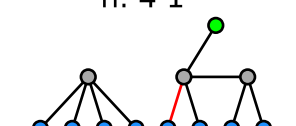
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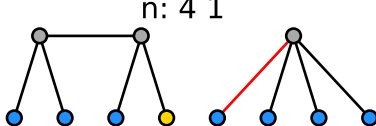
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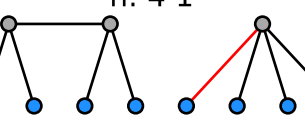
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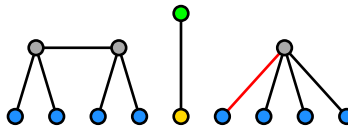
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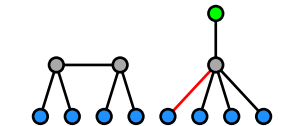
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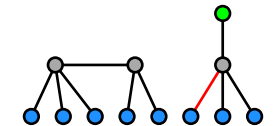
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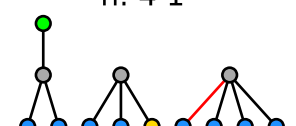
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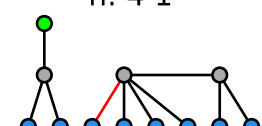
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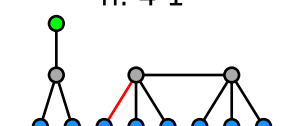
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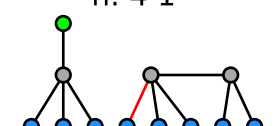
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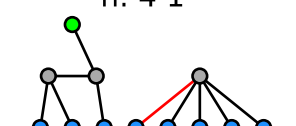
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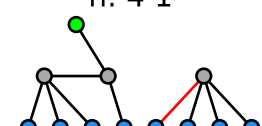
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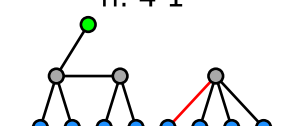
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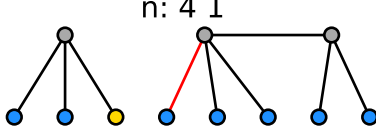
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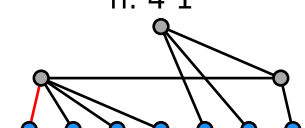
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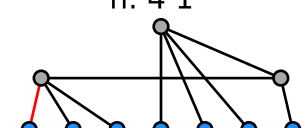
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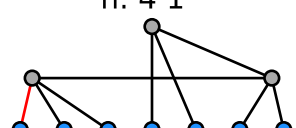
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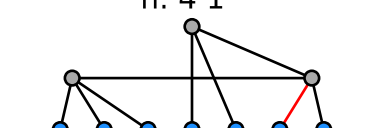
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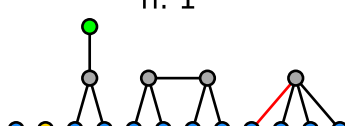
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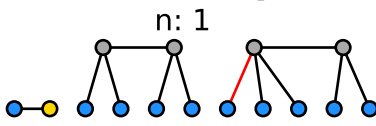
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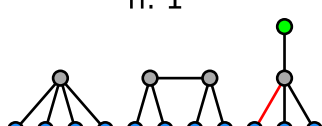
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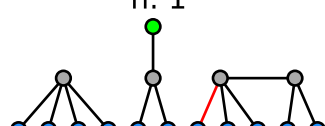
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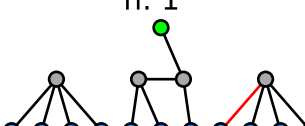
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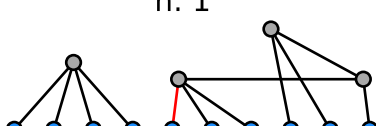
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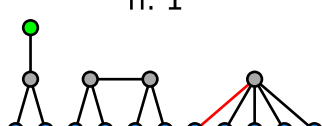
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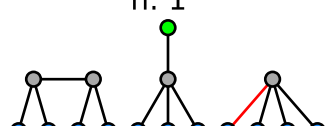
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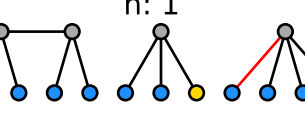
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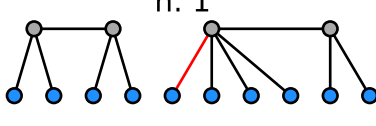
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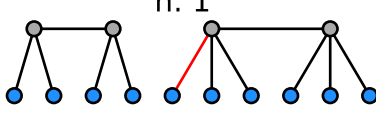
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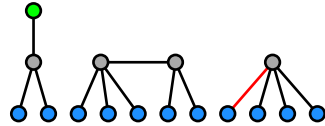
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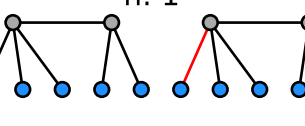
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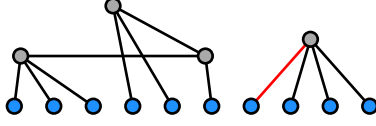
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 n: 1



ID: 267 V_1^n
 n: 1

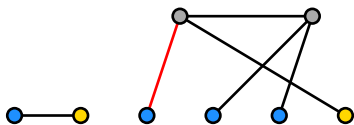


ID: 268 V_1^n
 n: 1

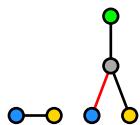


--- A2 case with weight 13 relations relation groups: 4 ---

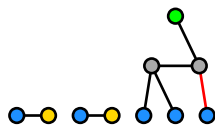
ID: 274 V_1^n
n: 7 4 1



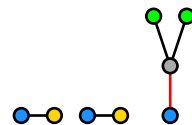
ID: 270 $V_1^{n-1} \boxtimes V_1$
n: 10 7 4 1



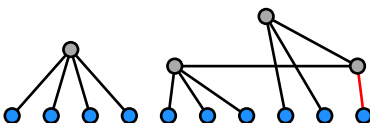
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n: 7 4 1



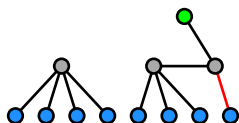
ID: 269 $V_1^{n-2} \boxtimes V_2$
n: 10 7 4



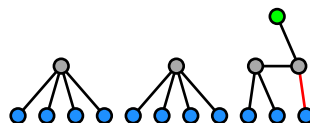
ID: 287 V_1^n
n: 1



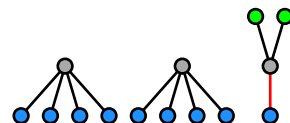
ID: 283 $V_1^{n-1} \boxtimes V_1$
n: 4 1



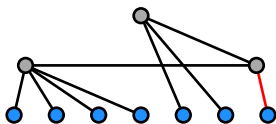
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n: 1



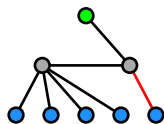
ID: 279 $V_1^{n-2} \boxtimes V_2$
n: 4



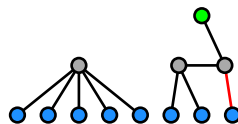
ID: 285 V_1^n
n: 4 1



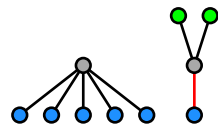
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n: 7 4 1



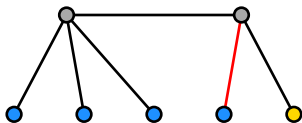
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n: 4 1



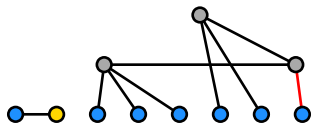
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n: 7 4



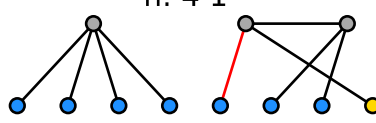
ID: 277 V_1^n
n: 7 4 1



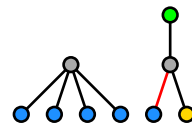
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n: 4 1



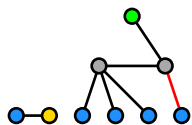
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n: 4 1



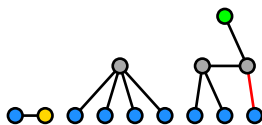
ID: 276 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



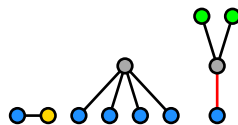
ID: 275 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



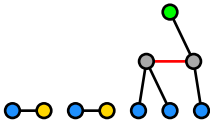
ID: 280 $V_1^{n-1} \boxtimes V_1$
n: 4 1



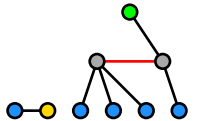
ID: 271 $V_1^{n-2} \boxtimes V_2$
n: 7 4



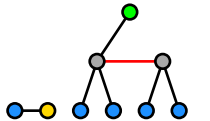
ID: 291 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



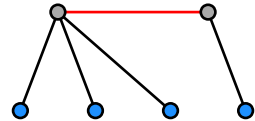
ID: 293 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



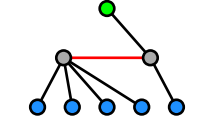
ID: 294 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



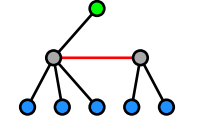
ID: 295 V_1^n
n: 7 4 1



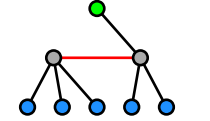
ID: 298 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



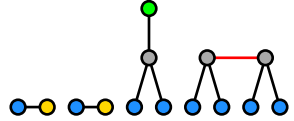
ID: 299 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



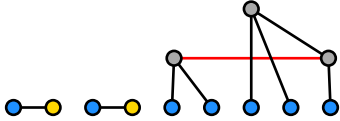
ID: 300 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



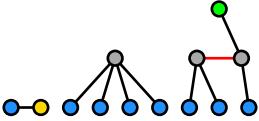
ID: 301 $V_1^{n-1} \boxtimes V_1$
n: 4 1



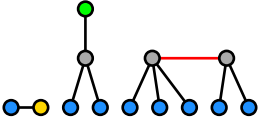
ID: 310 V_1^n
n: 4 1



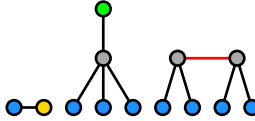
ID: 311 $V_1^{n-1} \boxtimes V_1$
n: 4 1



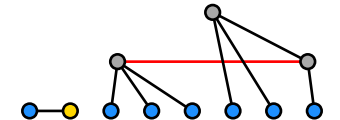
ID: 307 $V_1^{n-1} \boxtimes V_1$
n: 4 1



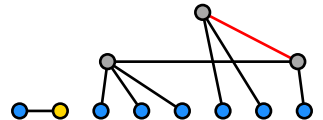
ID: 302 $V_1^{n-1} \boxtimes V_1$
n: 4 1



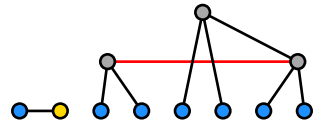
ID: 315 V_1^n
n: 4 1



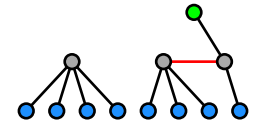
ID: 317 V_1^n
n: 4 1



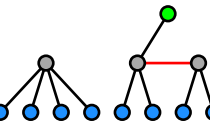
ID: 316 V_1^n
n: 4 1



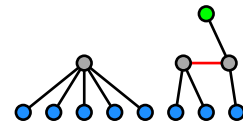
ID: 319 $V_1^{n-1} \boxtimes V_1$
n: 4 1



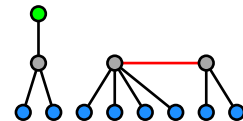
ID: 320 $V_1^{n-1} \boxtimes V_1$
n: 4 1



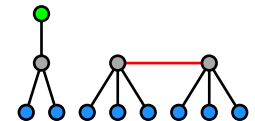
ID: 312 $V_1^{n-1} \boxtimes V_1$
n: 4 1



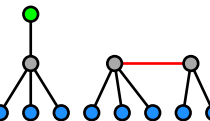
ID: 313 $V_1^{n-1} \boxtimes V_1$
n: 4 1



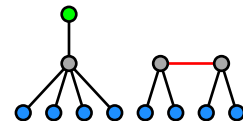
ID: 314 $V_1^{n-1} \boxtimes V_1$
n: 4 1



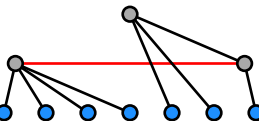
ID: 308 $V_1^{n-1} \boxtimes V_1$
n: 4 1



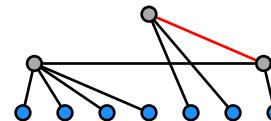
ID: 306 $V_1^{n-1} \boxtimes V_1$
n: 4 1



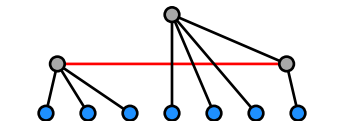
ID: 321 V_1^n
n: 4 1



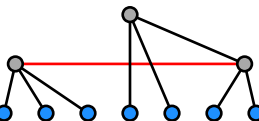
ID: 324 V_1^n
n: 4 1



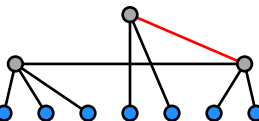
ID: 325 V_1^n
n: 4 1



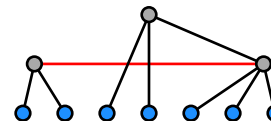
ID: 322 V_1^n
n: 4 1



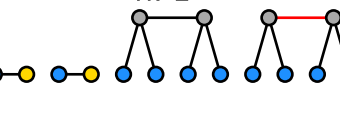
ID: 326 V_1^n
n: 4 1



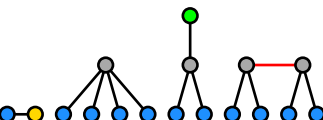
ID: 323 V_1^n
n: 4 1



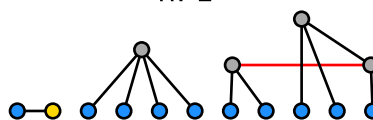
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n: 1



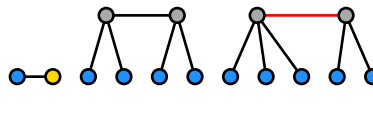
ID: 328 $V_1^{n-1} \boxtimes V_1$
n: 1



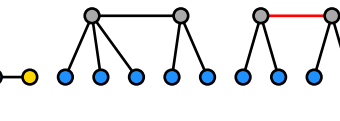
ID: 338 V_1^n
n: 1



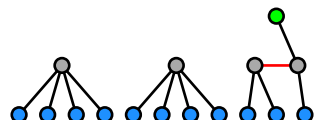
ID: 335 V_1^n
n: 1



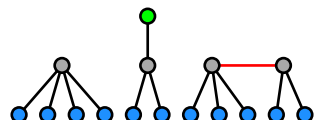
ID: 329 V_1^n
n: 1



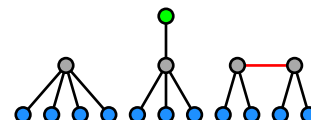
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n: 1



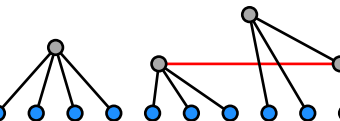
ID: 336 $V_1^{n-1} \boxtimes V_1$
n: 1



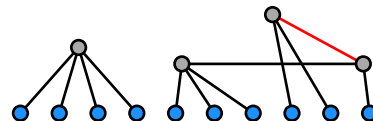
ID: 330 $V_1^{n-1} \boxtimes V_1$
n: 1



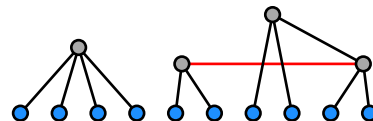
ID: 343 V_1^n
n: 1



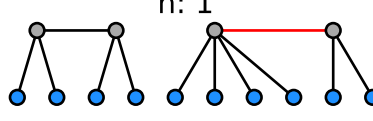
ID: 345 V_1^n
n: 1



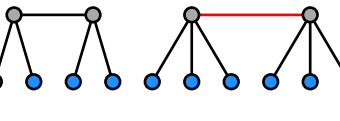
ID: 344 V_1^n
n: 1



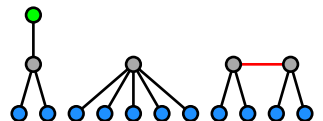
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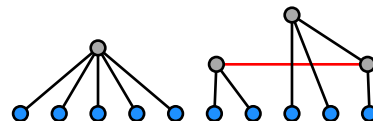
ID: 342 V_1^n
n: 1



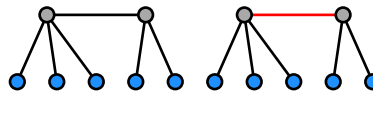
ID: 332 $V_1^{n-1} \boxtimes V_1$
n: 1



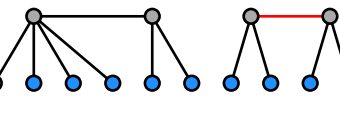
ID: 339 V_1^n
n: 1



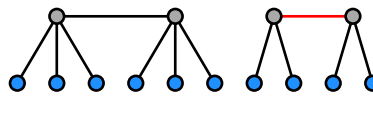
ID: 337 V_1^n
n: 1



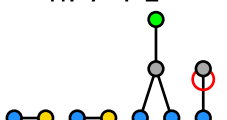
ID: 333 V_1^n
n: 1



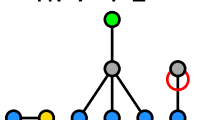
ID: 334 V_1^n
n: 1



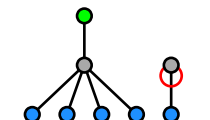
ID: 349 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



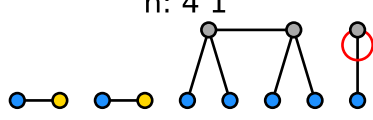
ID: 350 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



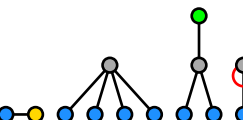
ID: 355 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



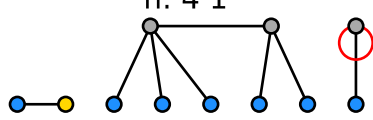
ID: 356 V_1^n
n: 4 1



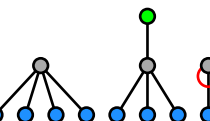
ID: 357 $V_1^{n-1} \boxtimes V_1$
n: 4 1



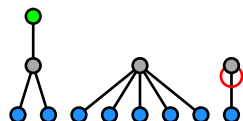
ID: 358 V_1^n
n: 4 1



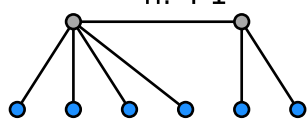
ID: 359 $V_1^{n-1} \boxtimes V_1$
n: 4 1



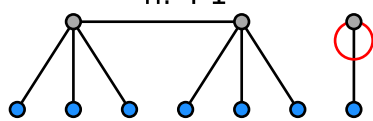
ID: 361 $V_1^{n-1} \boxtimes V_1$
n: 4 1



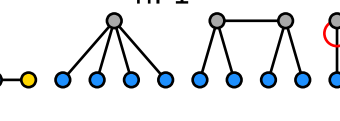
ID: 362 V_1^n
n: 4 1



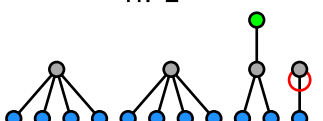
ID: 363 V_1^n
n: 4 1



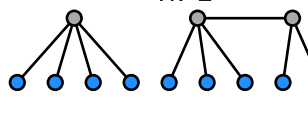
ID: 364 V_1^n
n: 1



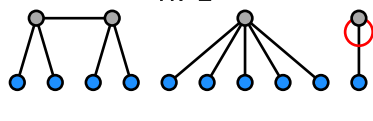
ID: 365 $V_1^{n-1} \boxtimes V_1$
n: 1



ID: 366 V_1^n
n: 1

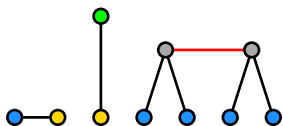


ID: 367 V_1^n
n: 1

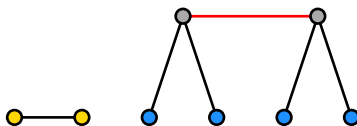


--- B,Birr cases with weight 11 relations relation groups: 5 ---

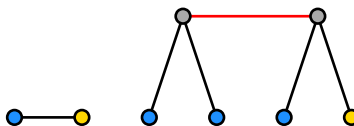
ID: 289 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



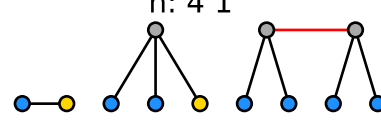
ID: 288 V_{1^n}
n: 7 4 1



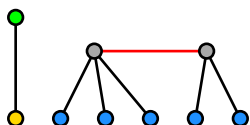
ID: 292 V_{1^n}
n: 7 4 1



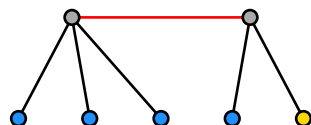
ID: 303 V_{1^n}
n: 4 1



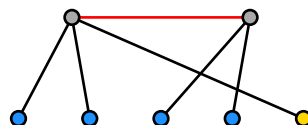
ID: 290 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



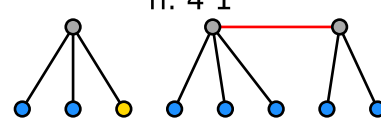
ID: 296 V_{1^n}
n: 7 4 1



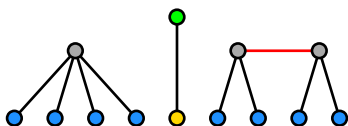
ID: 297 V_{1^n}
n: 7 4 1



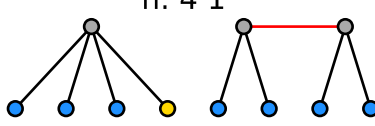
ID: 309 V_{1^n}
n: 4 1



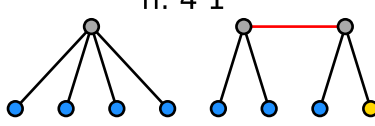
ID: 305 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1



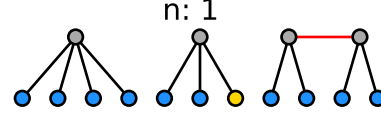
ID: 304 V_{1^n}
n: 4 1



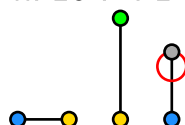
ID: 318 V_{1^n}
n: 4 1



ID: 331 V_{1^n}
n: 1



ID: 348 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1



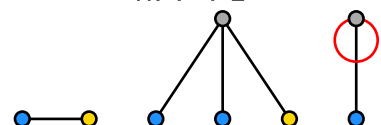
ID: 346 V_{1^n}
n: 10 7 4 1



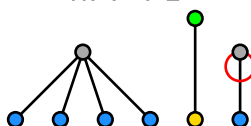
ID: 347 V_{1^n}
n: 10 7 4 1



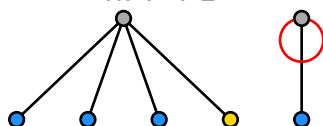
ID: 351 V_{1^n}
n: 7 4 1



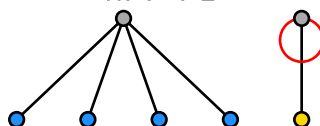
ID: 354 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



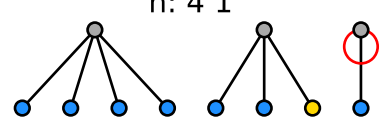
ID: 352 V_{1^n}
n: 7 4 1

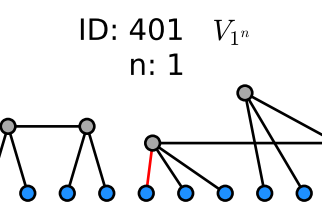
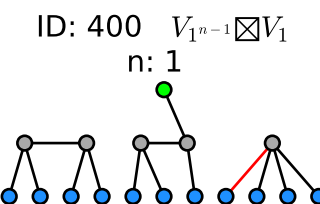
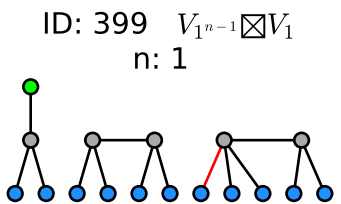
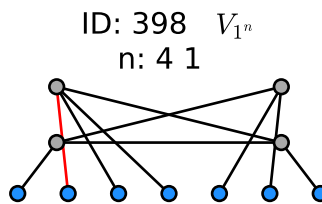
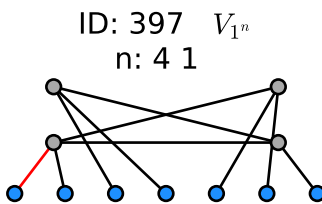
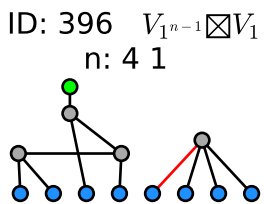
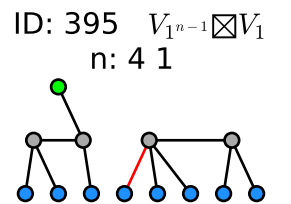
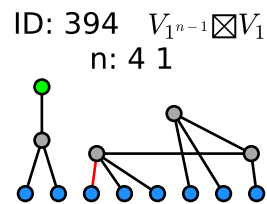
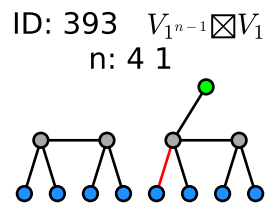
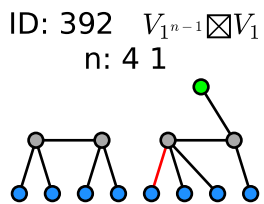
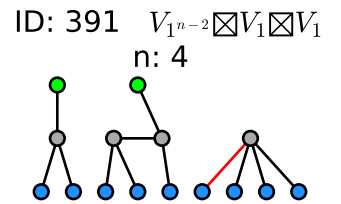
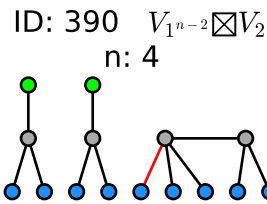
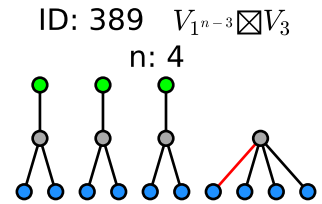
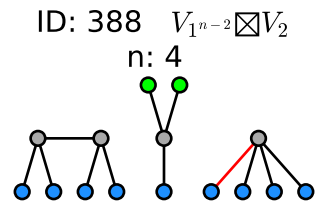
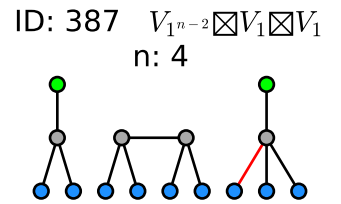
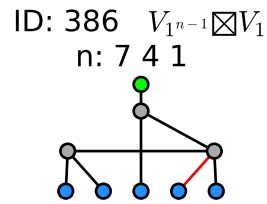
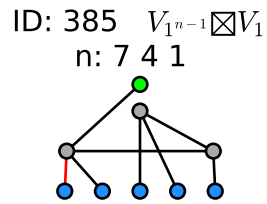
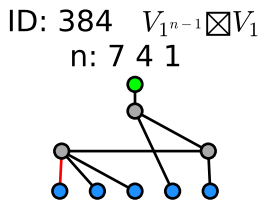
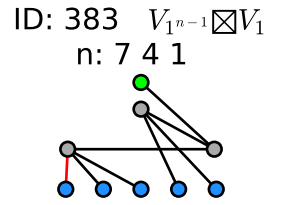
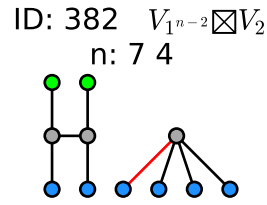
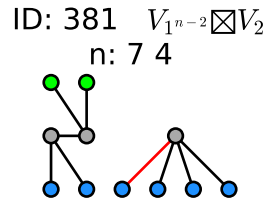
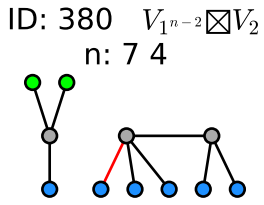
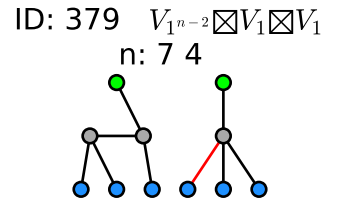
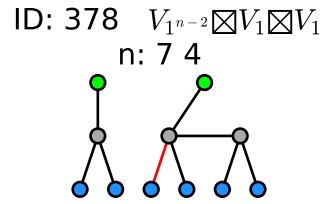
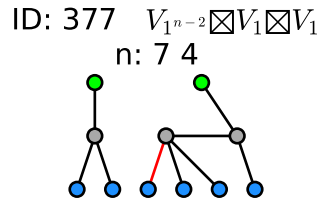
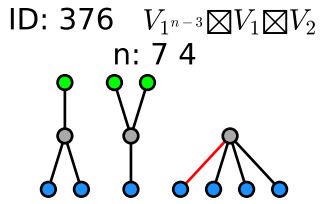
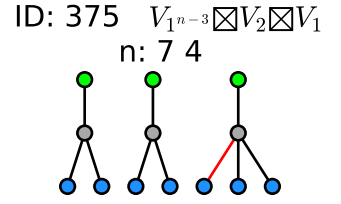
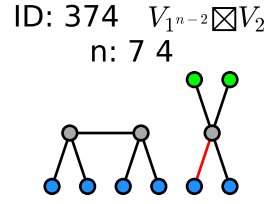
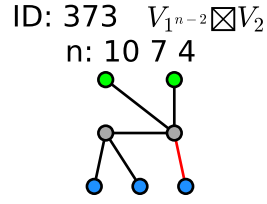
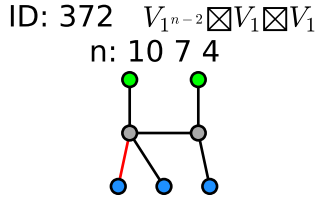
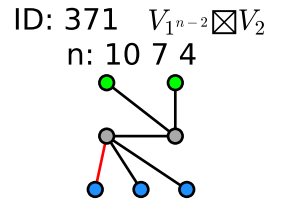
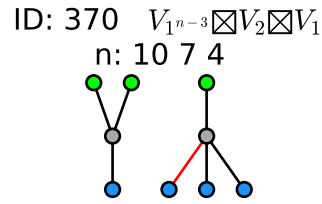
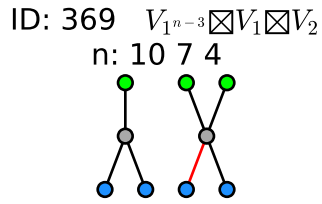
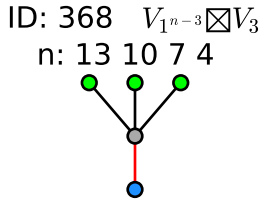


ID: 353 V_{1^n}
n: 7 4 1

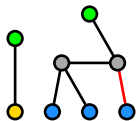


ID: 360 V_{1^n}
n: 4 1

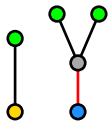




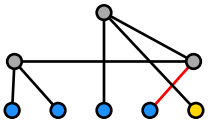
ID: 407 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



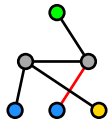
ID: 402 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 13 10 7 4



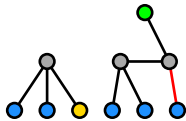
ID: 425 V_1^n
n: 7 4 1



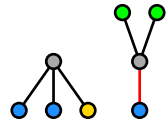
ID: 411 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1



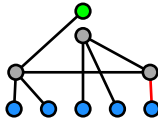
ID: 426 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



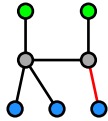
ID: 408 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4



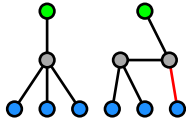
ID: 429 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



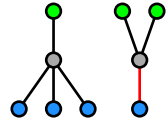
ID: 409 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



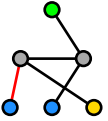
ID: 418 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4



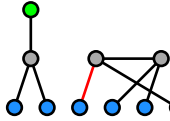
ID: 406 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 10 7 4



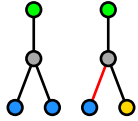
ID: 410 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1



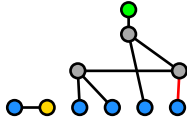
ID: 422 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



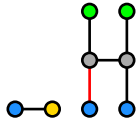
ID: 405 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



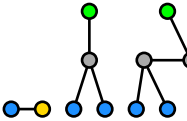
ID: 420 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



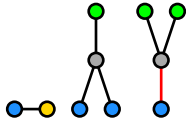
ID: 404 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



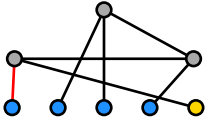
ID: 413 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4



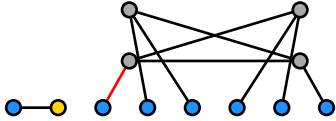
ID: 403 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 10 7 4



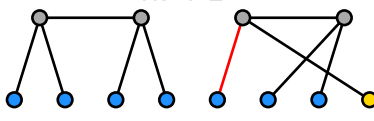
ID: 424 V_1^n
n: 7 4 1



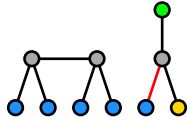
ID: 434 V_1^n
n: 4 1



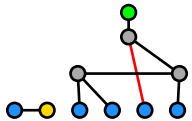
ID: 437 V_1^n
n: 4 1



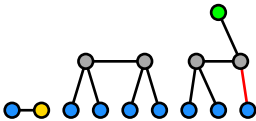
ID: 421 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



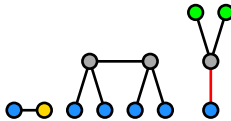
ID: 419 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



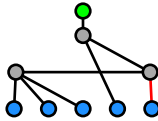
ID: 433 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1



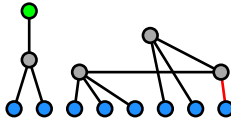
ID: 412 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4



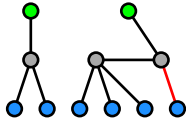
ID: 428 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



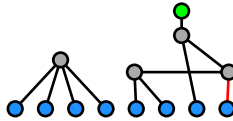
ID: 440 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1



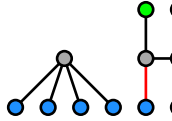
ID: 417 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4



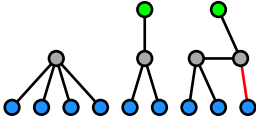
ID: 436 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1



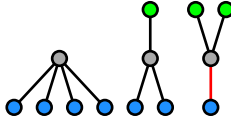
ID: 415 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4



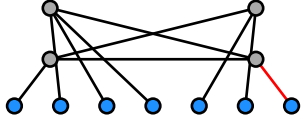
ID: 432 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 4



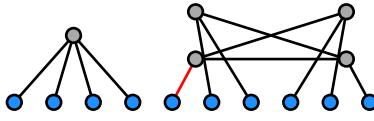
ID: 414 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 7 4



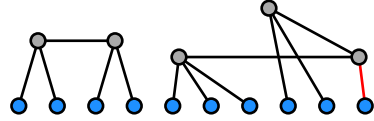
ID: 443 V_1^n
n: 4 1



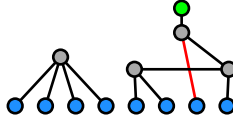
ID: 445 V_1^n
n: 1



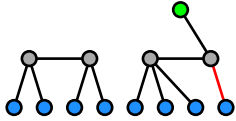
ID: 446 V_1^n
n: 1



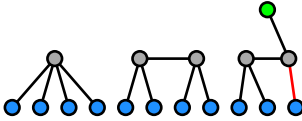
ID: 435 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1



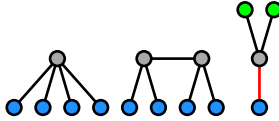
ID: 438 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1



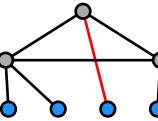
ID: 444 $V_{1^{n-1}} \boxtimes V_1$
n: 1



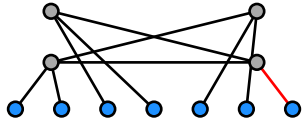
ID: 431 $V_{1^{n-2}} \boxtimes V_2$
n: 4



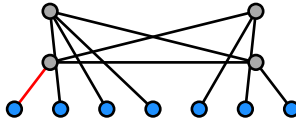
ID: 423 V_1^n
n: 7 4 1



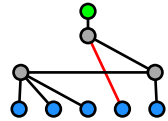
ID: 441 V_1^n
n: 4 1



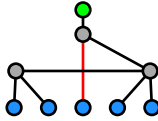
ID: 442 V_1^n
n: 4 1



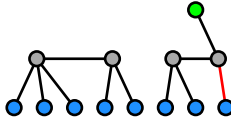
ID: 427 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



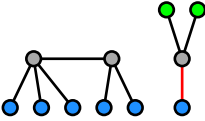
ID: 430 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1

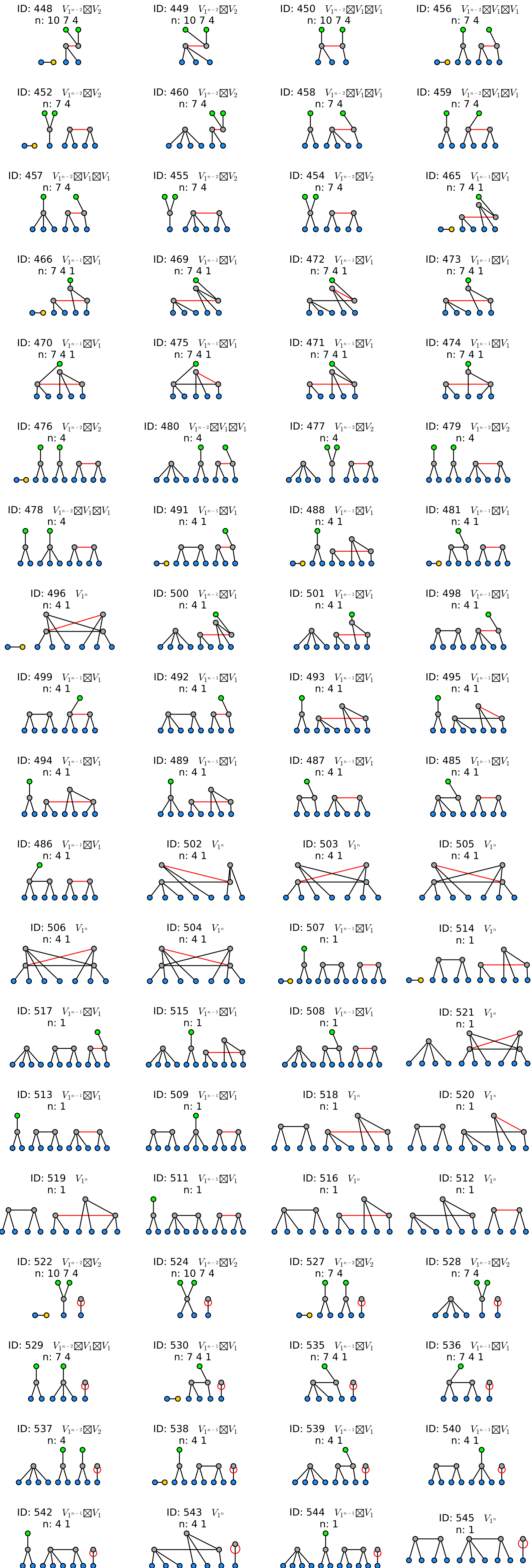


ID: 439 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1

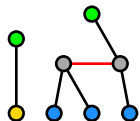


ID: 416 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4

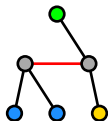




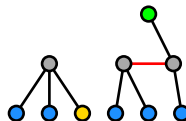
ID: 447 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



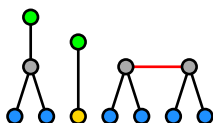
ID: 451 $V_1^{n-1} \boxtimes V_1$
n: 10 7 4 1



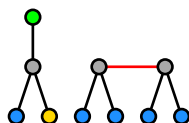
ID: 463 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



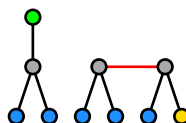
ID: 453 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 7 4



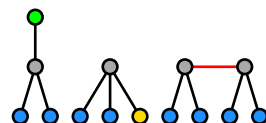
ID: 461 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



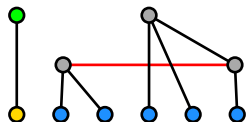
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n: 7 4 1



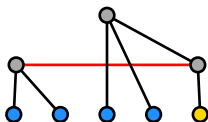
ID: 484 $V_1^{n-1} \boxtimes V_1$
n: 4 1



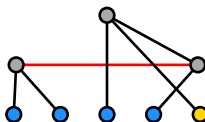
ID: 462 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



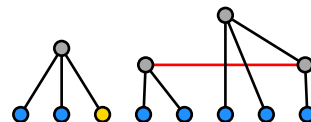
ID: 467 V_1^n
n: 7 4 1



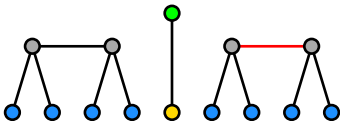
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n: 7 4 1



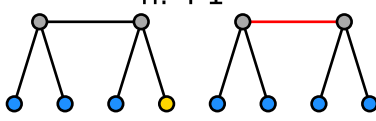
ID: 490 V_1^n
n: 4 1



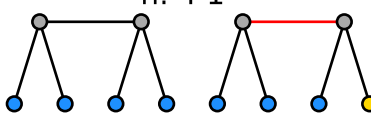
ID: 483 $V_1^{n-1} \boxtimes V_1$
n: 4 1



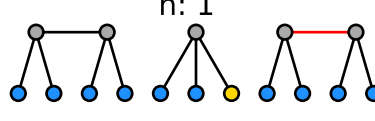
ID: 482 V_1^n
n: 4 1



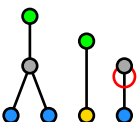
ID: 497 V_1^n
n: 4 1



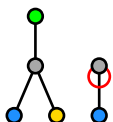
ID: 510 V_1^n
n: 1



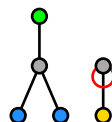
ID: 523 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



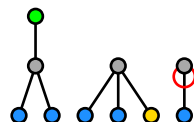
ID: 525 $V_1^{n-1} \boxtimes V_1$
n: 10 7 4 1



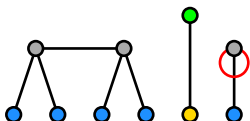
ID: 526 $V_1^{n-1} \boxtimes V_1$
n: 10 7 4 1



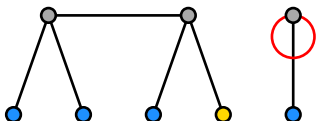
ID: 534 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



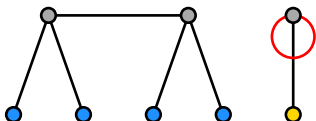
ID: 533 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



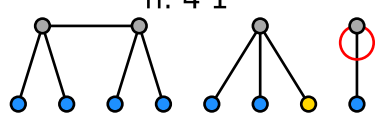
ID: 531 V_1^n
n: 7 4 1



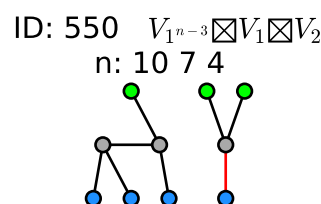
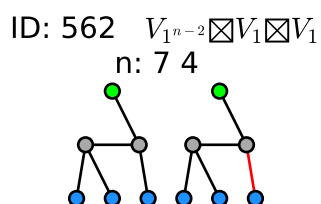
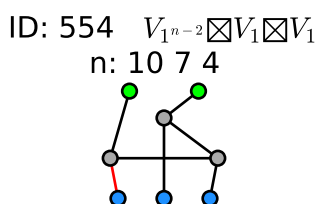
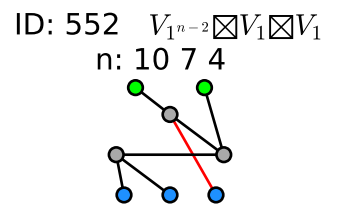
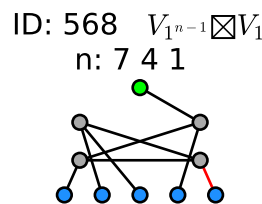
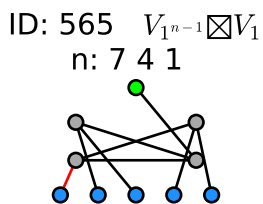
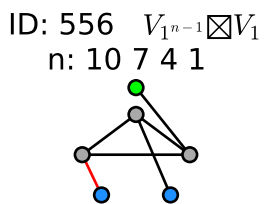
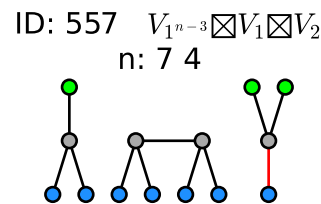
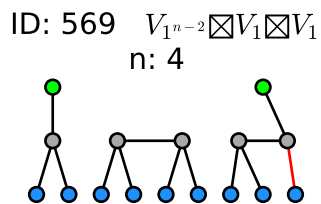
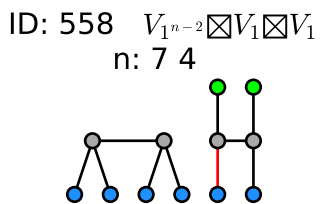
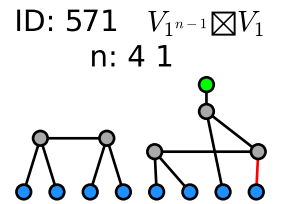
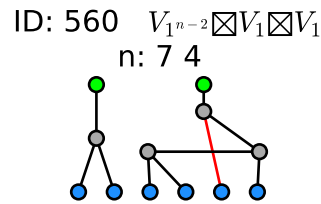
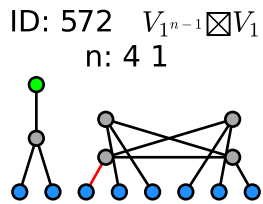
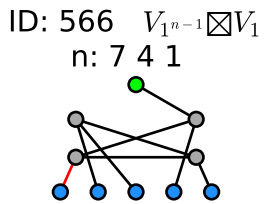
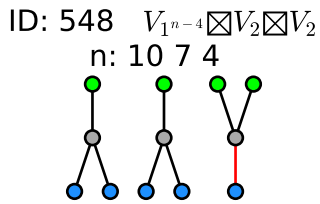
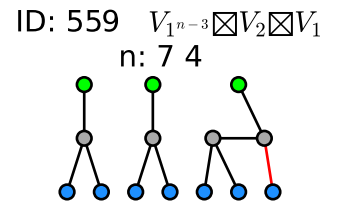
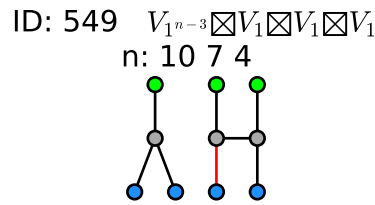
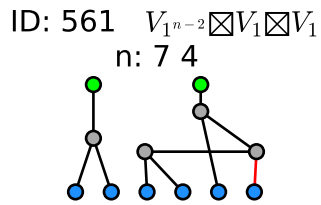
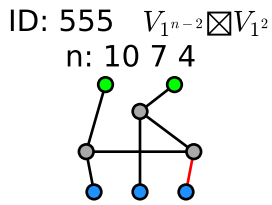
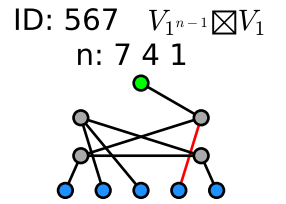
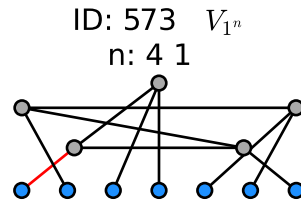
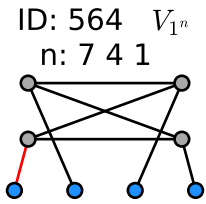
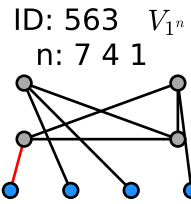
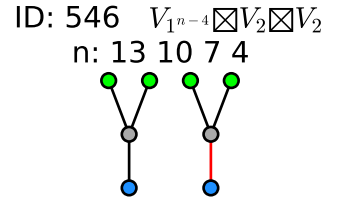
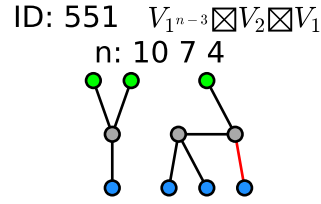
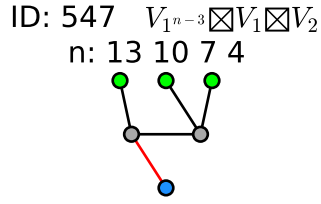
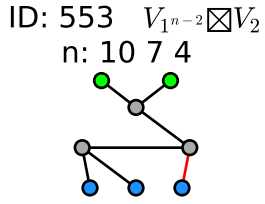
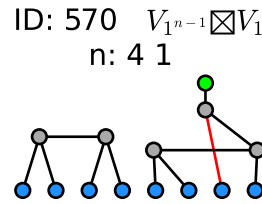
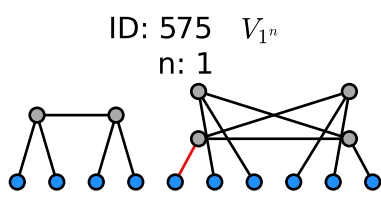
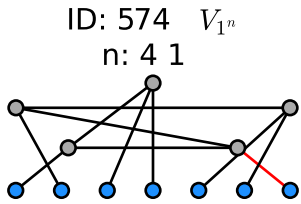
ID: 532 V_1^n
n: 7 4 1



ID: 541 V_1^n
n: 4 1

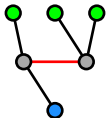


----- edges: 14-n graphs: 73 -----
 --- A2 case with weight 13 relations relation groups: 6 ---



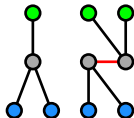
ID: 576 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$

n: 13 10 7 4



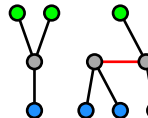
ID: 578 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$

n: 10 7 4



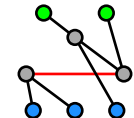
ID: 577 $V_{1^{n-3}} \boxtimes V_2 \boxtimes V_1$

n: 10 7 4



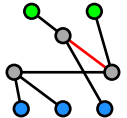
ID: 579 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 10 7 4



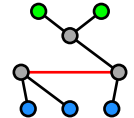
ID: 580 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 10 7 4



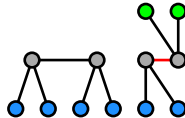
ID: 581 $V_{1^{n-2}} \boxtimes V_2$

n: 10 7 4



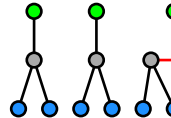
ID: 590 $V_{1^{n-2}} \boxtimes V_2$

n: 7 4



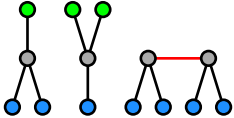
ID: 586 $V_{1^{n-3}} \boxtimes V_2 \boxtimes V_1$

n: 7 4



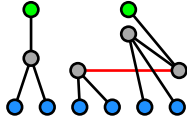
ID: 582 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$

n: 7 4



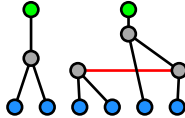
ID: 588 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 7 4



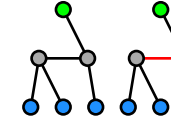
ID: 589 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 7 4



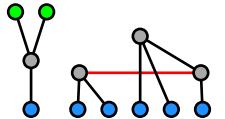
ID: 587 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 7 4



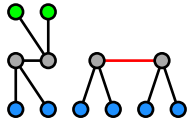
ID: 585 $V_{1^{n-2}} \boxtimes V_2$

n: 7 4



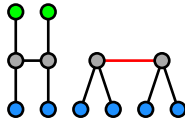
ID: 583 $V_{1^{n-2}} \boxtimes V_2$

n: 7 4



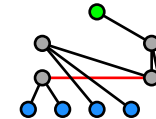
ID: 584 $V_{1^{n-2}} \boxtimes V_2$

n: 7 4



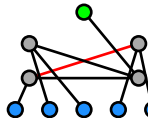
ID: 591 $V_{1^{n-1}} \boxtimes V_1$

n: 7 4 1



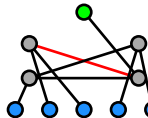
ID: 592 $V_{1^{n-1}} \boxtimes V_1$

n: 7 4 1



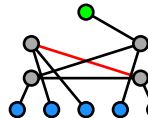
ID: 593 $V_{1^{n-1}} \boxtimes V_1$

n: 7 4 1



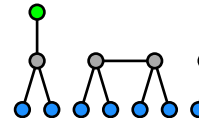
ID: 594 $V_{1^{n-1}} \boxtimes V_1$

n: 7 4 1



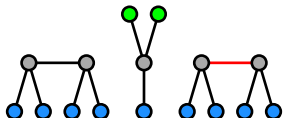
ID: 599 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 4



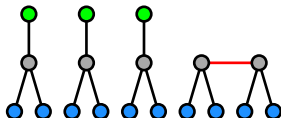
ID: 595 $V_{1^{n-2}} \boxtimes V_2$

n: 4



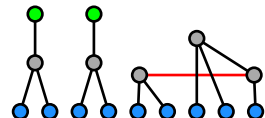
ID: 596 $V_{1^{n-3}} \boxtimes V_3$

n: 4



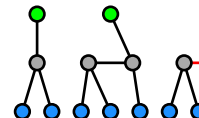
ID: 598 $V_{1^{n-2}} \boxtimes V_2$

n: 4



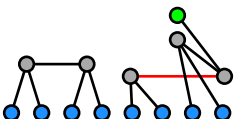
ID: 597 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 4



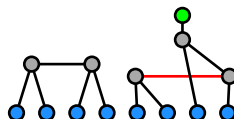
ID: 603 $V_{1^{n-1}} \boxtimes V_1$

n: 4 1



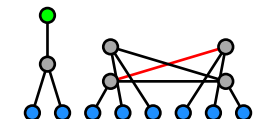
ID: 604 $V_{1^{n-1}} \boxtimes V_1$

n: 4 1



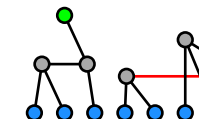
ID: 602 $V_{1^{n-1}} \boxtimes V_1$

n: 4 1



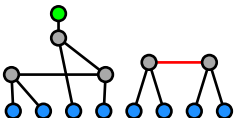
ID: 601 $V_{1^{n-1}} \boxtimes V_1$

n: 4 1



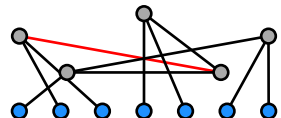
ID: 600 $V_{1^{n-1}} \boxtimes V_1$

n: 4 1



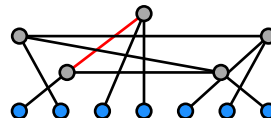
ID: 605 V_{1^n}

n: 4 1



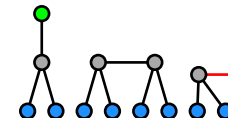
ID: 606 V_{1^n}

n: 4 1



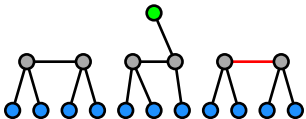
ID: 608 $V_{1^{n-1}} \boxtimes V_1$

n: 1



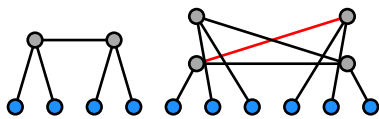
ID: 607 $V_{1^{n-1}} \boxtimes V_1$

n: 1



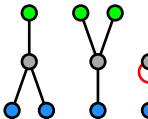
ID: 609 V_{1^n}

n: 1



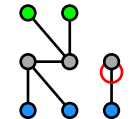
ID: 610 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$

n: 10 7 4



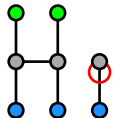
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n: 10 7 4



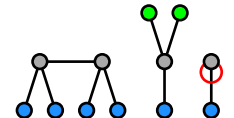
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n: 10 7 4



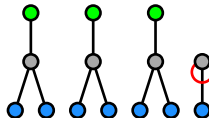
ID: 613 $V_{1^{n-2}} \boxtimes V_2$

n: 7 4



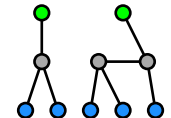
ID: 614 $V_{1^{n-3}} \boxtimes V_3$

n: 7 4



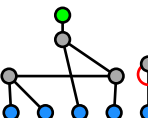
ID: 615 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 7 4



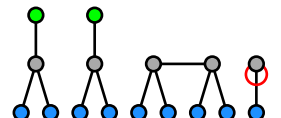
ID: 616 $V_{1^{n-1}} \boxtimes V_1$

n: 7 4 1



ID: 617 $V_{1^{n-2}} \boxtimes V_2$

n: 4



ID: 618 $V_{1^{n-1}} \boxtimes V_1$

n: 4 1

