Counting colourings

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1. When presenting the 3-colowing invariant, I should use the "counting" vorsion rather han the T/F-vorsion. Abilian graps. 6+C=2a

 $(95)^{-1} = (a^{-1}, -a^{-1}b)$

(a,b) (c,2)(a,3) = (a-1,-a-1b) (ac, darb) conj. chres: {(1,0)}: the is. = (C, -bC + da + b) = (C, (+c)b + ad) (odd) $\{(-1,a)\}$ $a \neq 0$ $\frac{it}{a=c=-1}$ (-1,b+d+b)=(-1,2b-d)

2. Is the counting vosion polytime computable? Yes, as the solution space is a linear space whose dimension is the rank of a matrix.

3. Is the metabelian counting invariant poly-time computable?