An extra relation?

June-24-15   8:32 AM

```
Jac = S[B[x1, B[x2, x3]] + B[x2, B[x3, x1]] + B[x3, B[x1, x2]]];

In[92]:= Jacobi @@ {a[1, 1, 2], a[1, 2, 3], a[1, 2, 4]}

Out[92]= {a[1,12], a[1,23], a[1,24]} → γ[-b₁,234] + γ[b₂,134] +
         γa[-1,1324] + γa[-1,2413] + γa[1,1423] + γa[1,2314]
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Can it be split in two?
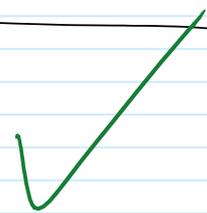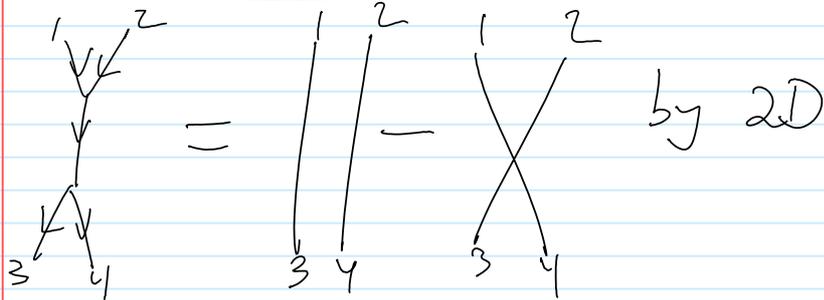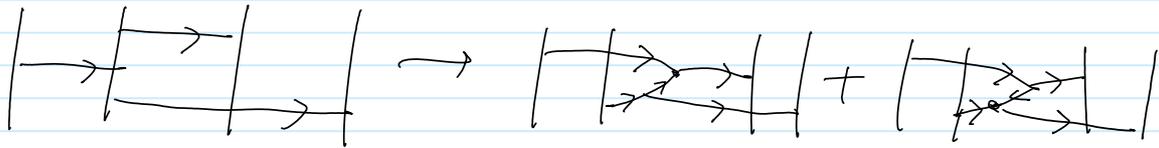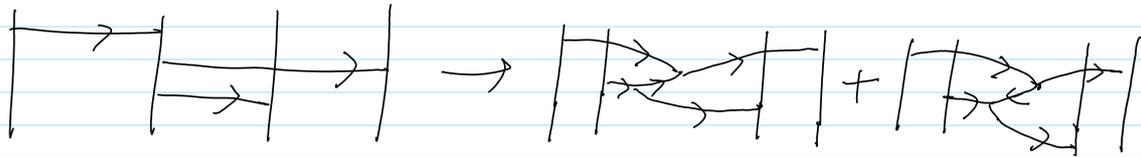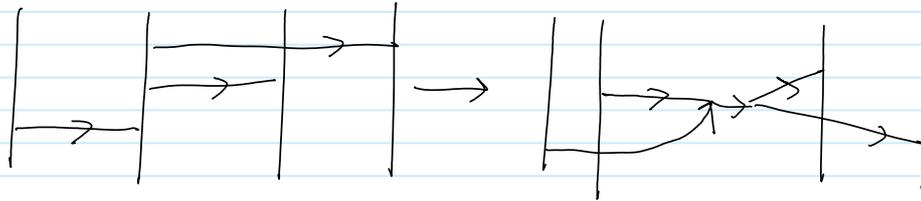
So the extra relation is the usual
$$\wedge^2(2D) = 1D \text{ relation}!$$
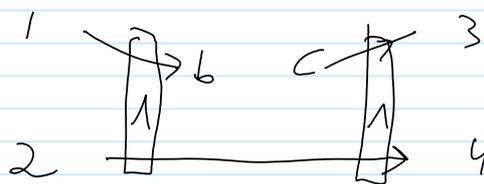
gives no new relations because b_1 commutes with a_{2-}.
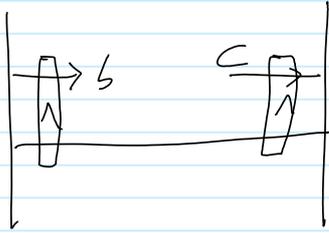
explained by co-degree reasons.
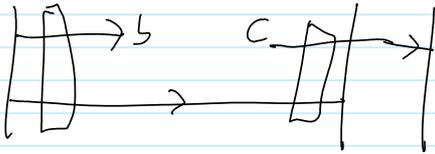
b commutes w/ a after
a co-degree shift.