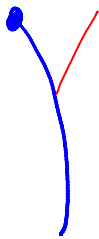
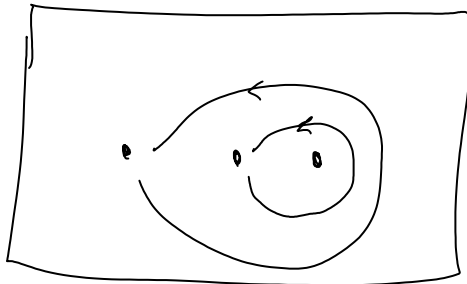


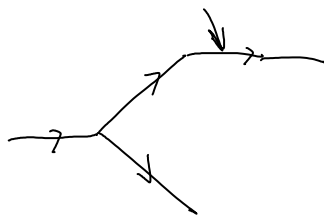
$$\frac{dz_1 - dz_2}{z_1 - z_2} \wedge \frac{dz_2 - dz_3}{z_2 - z_3} \in \mathcal{N}^2(C_n)$$

What's the path integral of that?



The div property of braids is that there is no braiding of  $w$ -spheres. Is there more to say on braids in the  $v$ -world?

What if we allow just one  vertex?

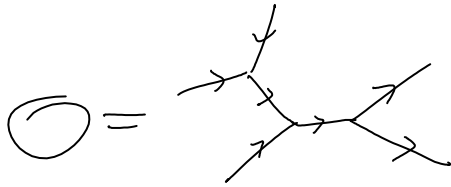


It's time that I'd have a good Lie calculator!

Amusing: According to the online encyclopaedia of integer sequences (spec. <http://oeis.org/search?q=2,1,2,3,6,9,18,30,56,99>) is both

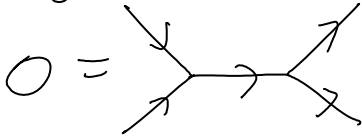
- The number of irred. polys of deg  $n$  over  $F_2$ ,
- And the dimension of the degree  $n$  piece of the free Lie algebra on 2 generators.

Why is this so?



Better Than Commutators  
Commutate?

maybe even



"short-tail quotient"

**Challenge.** Find  $A^P$  within  $A^V$ .

**What is the best way to study Rational Homotopy Theory**

Pasted from <<http://mathoverflow.net/questions/56809/what-is-the-best-way-to-study-rational-homotopy-theory>>

Rational Homotopy Theory: A Brief Introduction by Kathryn Hess

Pasted from <[http://en.wikipedia.org/wiki/Rational\\_homotopy\\_theory](http://en.wikipedia.org/wiki/Rational_homotopy_theory)>