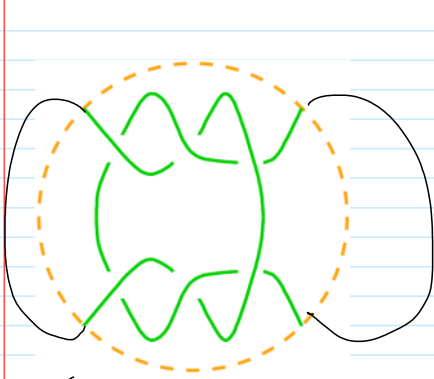


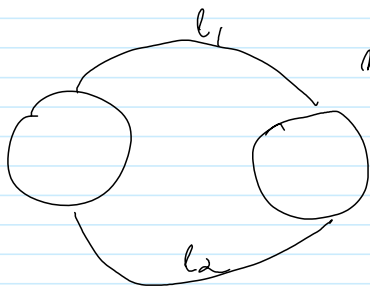
# A Markov Theorem for Tangles

May-22-14 8:47 AM

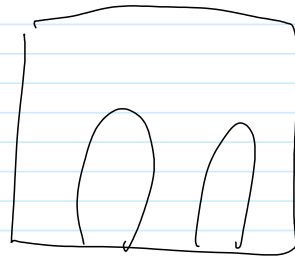
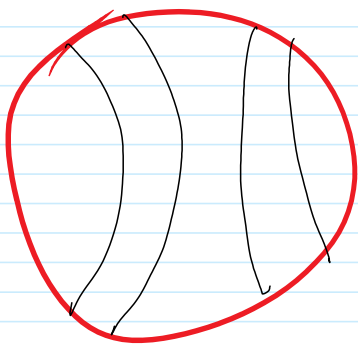
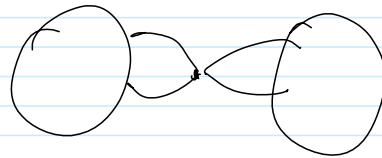


what would a <sup>tangle</sup> certificate that this is the unknot look like?

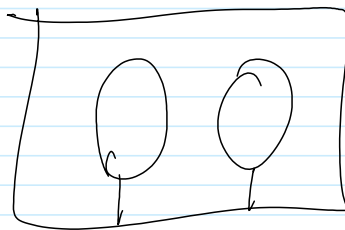
"A Markov theorem for tangles?"



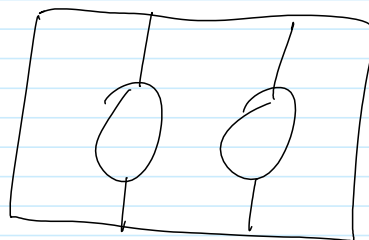
$$\eta^{l_1} = \eta^{l_2}$$



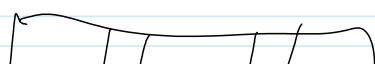
closure  
trivial



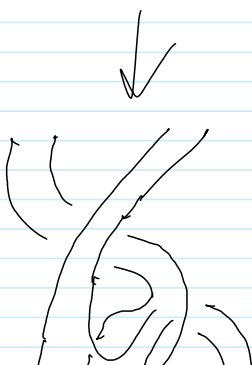
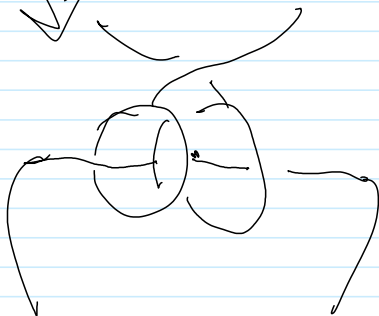
trivial  
once bottom  
is removed

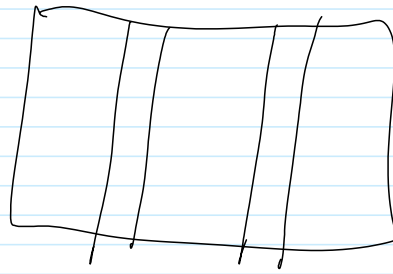


trivial if  
bottom is removed,  
original if top  
is removed.

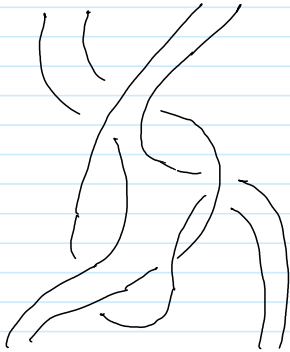


original if





original 12  
top 13 capped,  
trivial 14  
bottom 13  
capped.



upside  
down

