
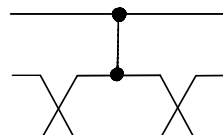
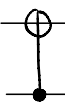
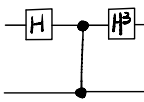
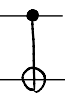
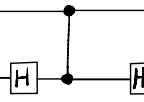
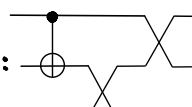
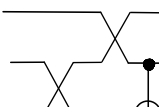
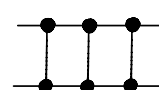



Def 5:  := 

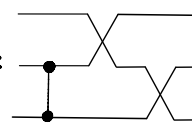
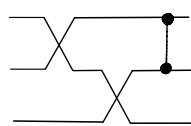
Def 2:  := 

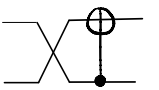
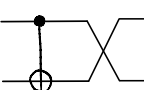
Def 4:  := 



C_{15}^8 :  = 

C_6^* :  = 

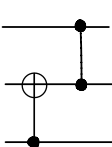
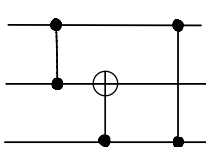
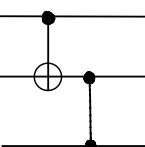
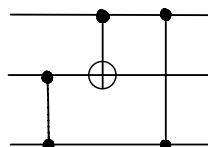
R_{16} :  = 

C_{15} :  = 

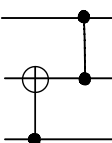
R_{31} :  = 

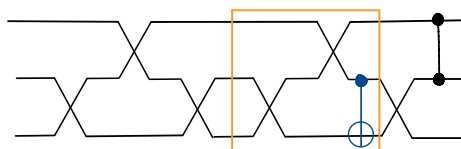
R_{17} :  = 

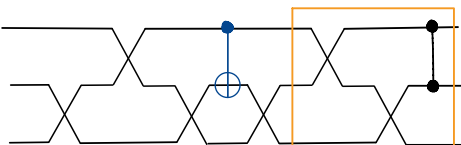
Lem J

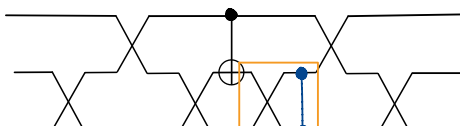
C_{16}^2 :  =  is a variant of C_{16} :  = 

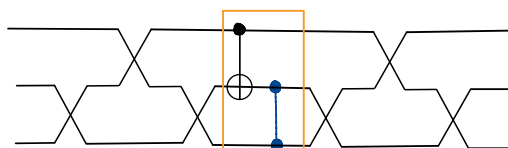
Proof:

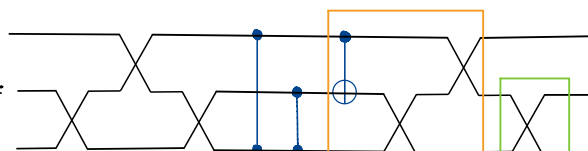
C_{16}^2 . LHS :=  $\stackrel{R_{16}}{=}$ 

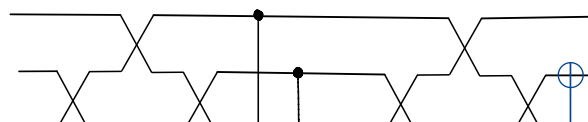
$\stackrel{R_{31}}{=}$ 

$\stackrel{C_{15}^8}{=}$ 

$\stackrel{C_{15}}{=}$ 

$\stackrel{R_{17}}{=}$ 

$\stackrel{C_{16}^1}{=}$ 

$\stackrel{R_{31}}{=} \stackrel{C_{15}^8}{=}$ 

$$\begin{array}{lll}
 R_{16}: \text{diagram} = \text{diagram} & R_{17}: \text{diagram} = \text{diagram} & R_{31}: \text{diagram} = \text{diagram} \\
 C_{15}^2: \text{diagram} = \text{diagram} & C_{15}: \text{diagram} = \text{diagram} & C_{13}^1: \text{diagram} = \text{diagram} \\
 C_{15}^8: \text{diagram} = \text{diagram} & \text{Def 5}: \text{diagram} := \text{diagram} & C_{13}^7: \text{diagram} = \text{diagram}
 \end{array}$$

Lem J

$$C_{16}^2: \text{diagram} = \text{diagram} \text{ is a variant of } C_{16}: \text{diagram} = \text{diagram}$$

Proof cont.

C_{16}^2 . LHS =

$$\begin{array}{l}
 \text{diagram} \\
 \xrightarrow[R_{17}]{C_{15}} \text{diagram} \\
 \xrightarrow[\text{Def 5}]{} \text{diagram} \\
 \xrightarrow[R_{16}]{} \text{diagram} \\
 \xrightarrow[C_{15}^2]{} \text{diagram} \\
 \xrightarrow[R_{16}]{} \text{diagram} \\
 \xrightarrow[C_{13}^1]{C_{13}^7} \text{diagram} =: C_{16}^2 \text{. RHS.}
 \end{array}$$