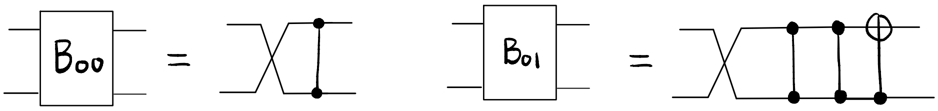
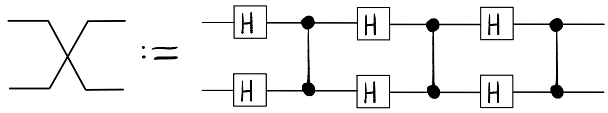
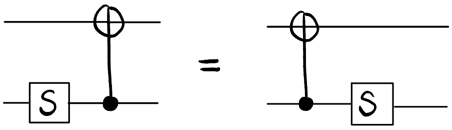


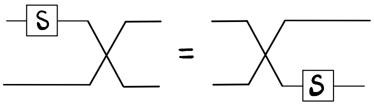
Def 3 :



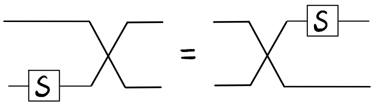
R24:



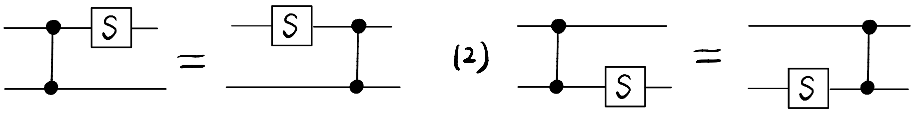
R18: (1)



(2)

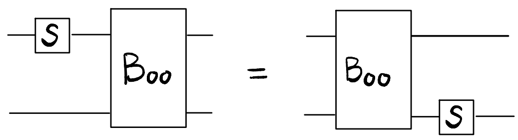


C7: (1)

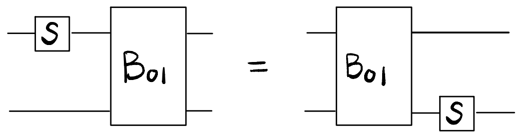


Lem 23 By Def 3, C7, R18 & R24,

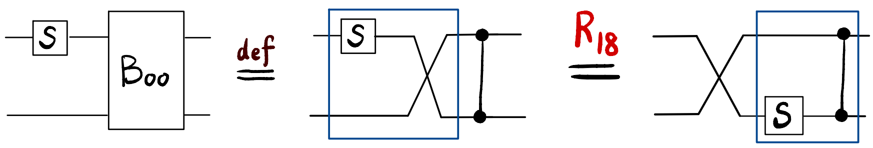
6. (1)

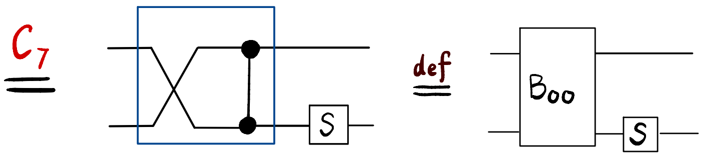


(2)



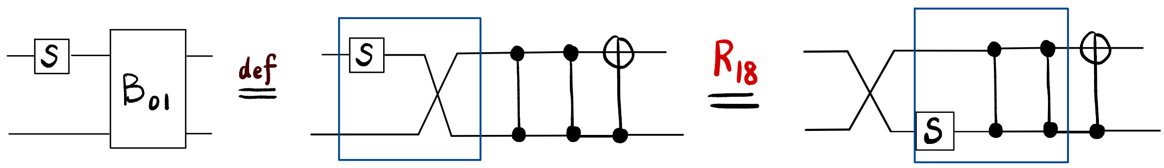
Proof: 6. (1). LHS :=

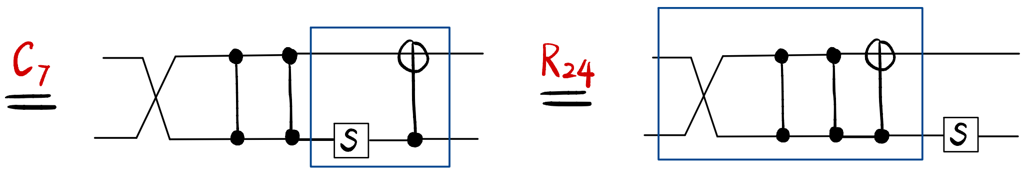


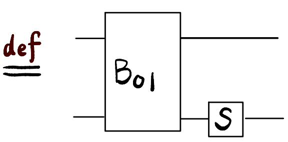


=: 6. (1). RHS

6. (1). LHS :=

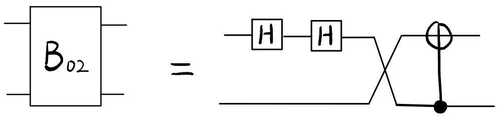


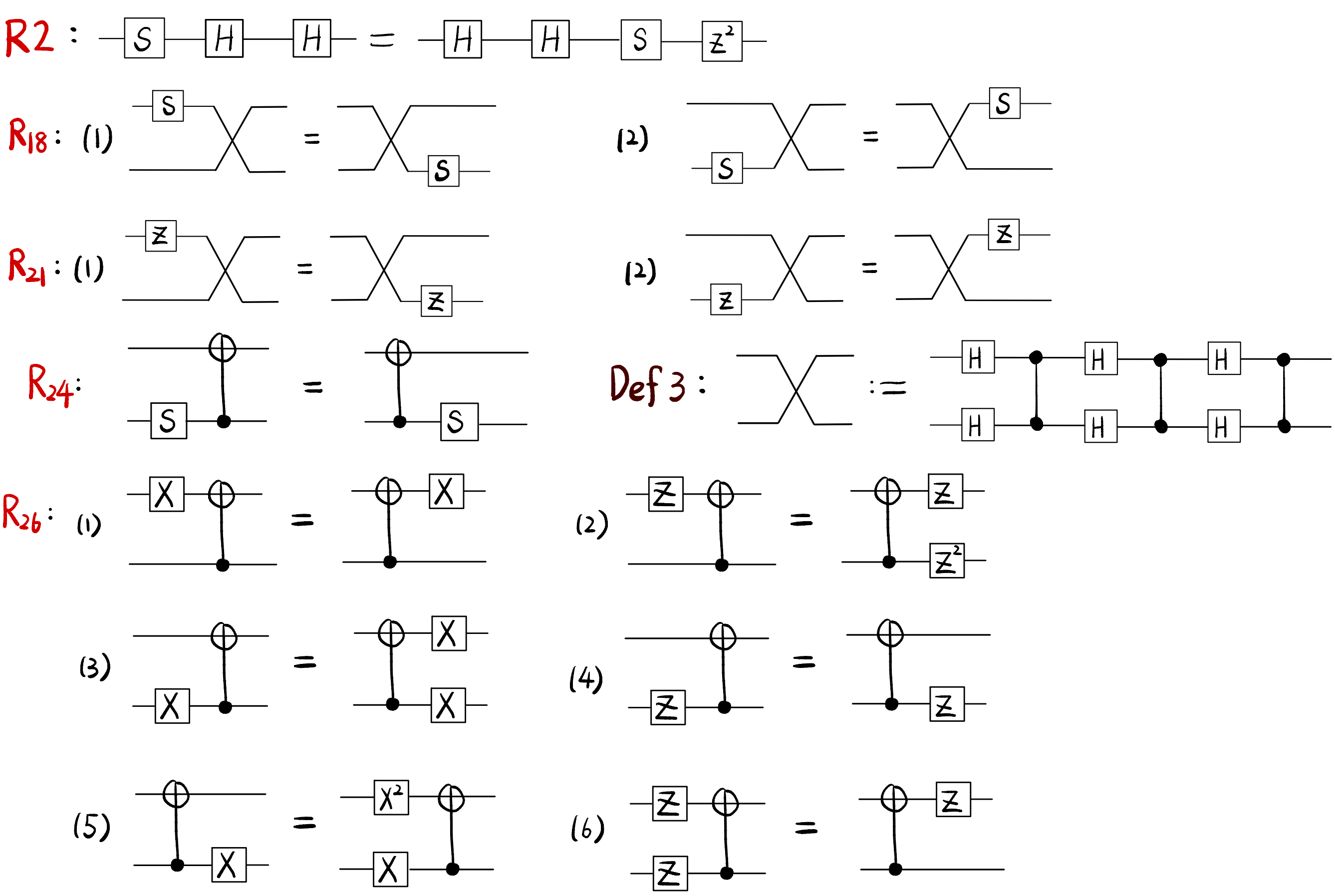




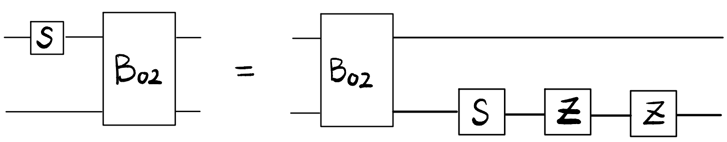
=: 6. (2). RHS

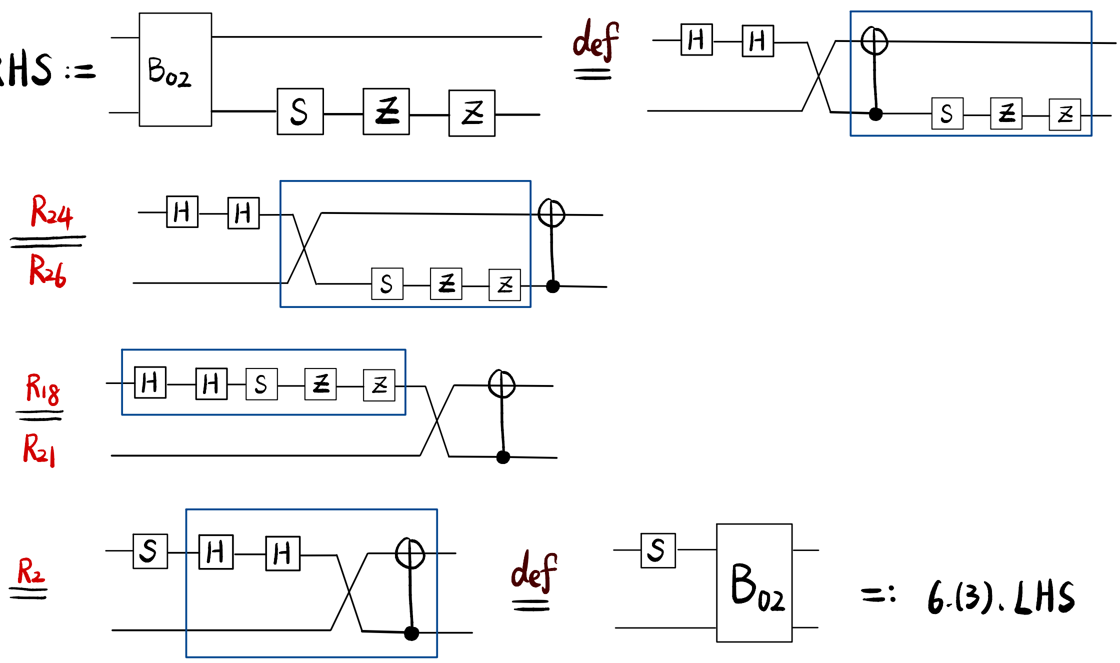
∎





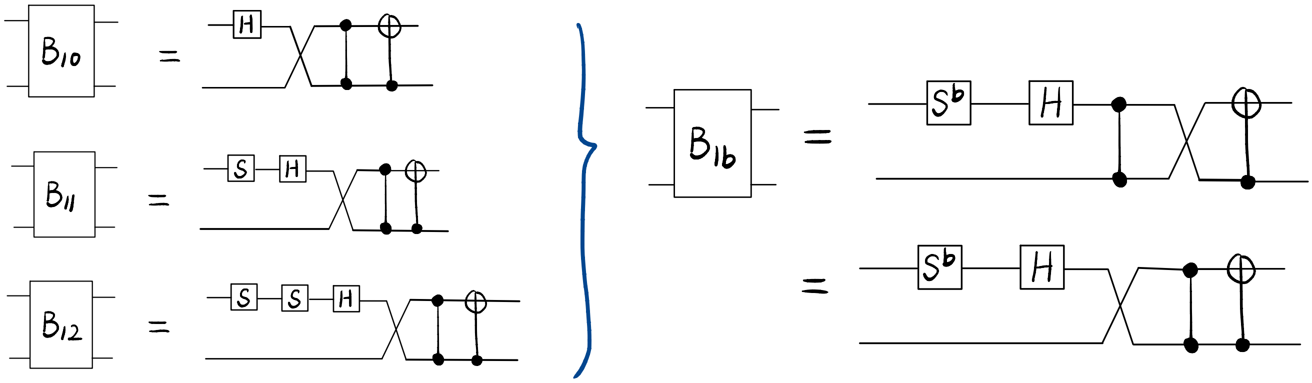
Lem 24 By Def 3, R_2, R_{18}, R_{21}, R_{24} & R_{26},

6.(3) 

Proof: 6.(3). RHS := 

=: 6.(3). LHS

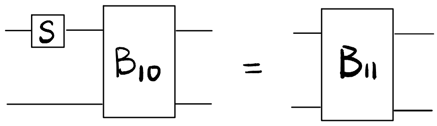
∎



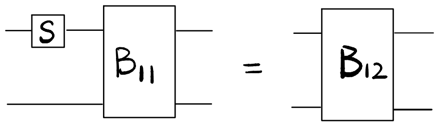
$C_3 : S^3 = I$

Lem 25 By C_3,

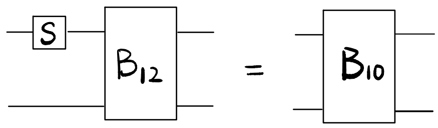
6.(4)



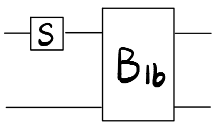
(5)



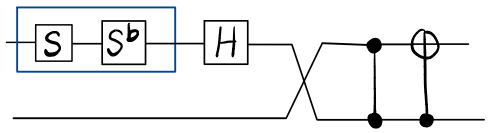
(6)



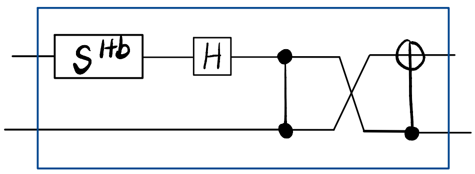
Proof: 6.(4)/(5)/(6). LHS :=



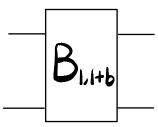
$\underline{\underline{\text{def}}}$



$\underline{\underline{C_3}}$

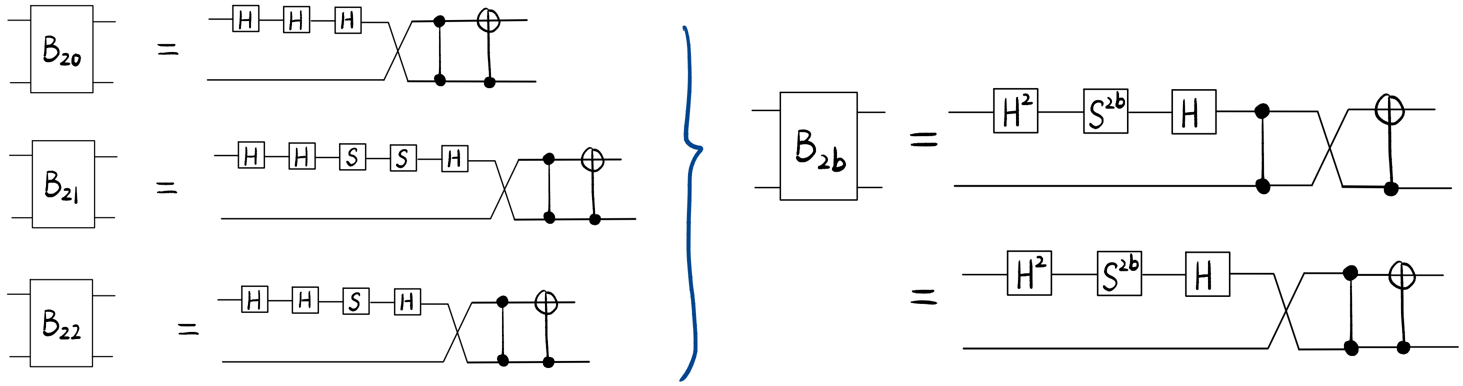


$\underline{\underline{\text{def}}}$



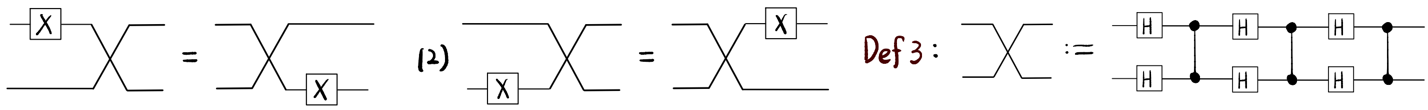
=: 6.(4)/(5)/(6). RHS

∎

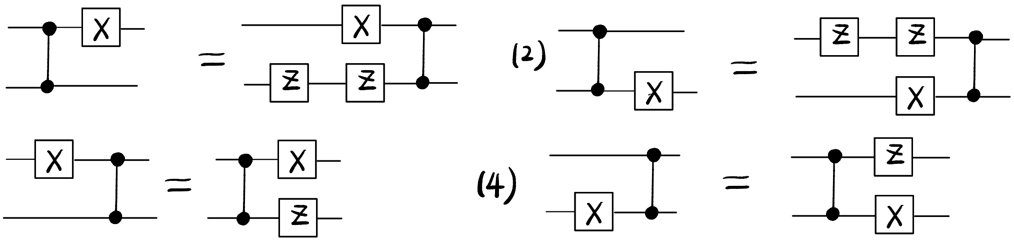


Lem 10 $-S-H^2-S^{2b}-H- \;=\; -H^2-S^{2b+1}-H-X-$

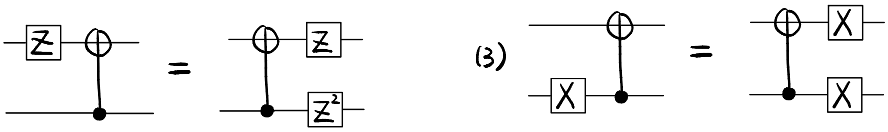
R_{20}: (1) (2) Def 3 :



R_{14}: (1) (2) (3) (4)



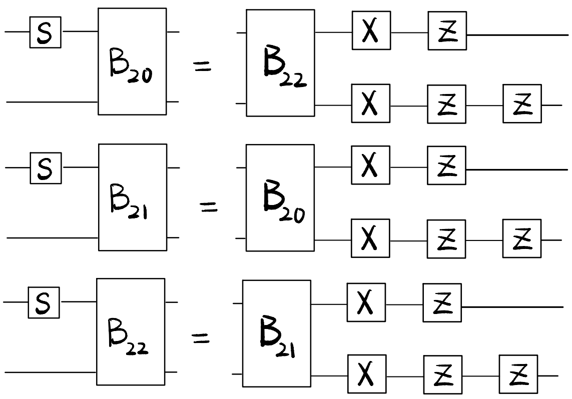
R_{26}: (2) (3)



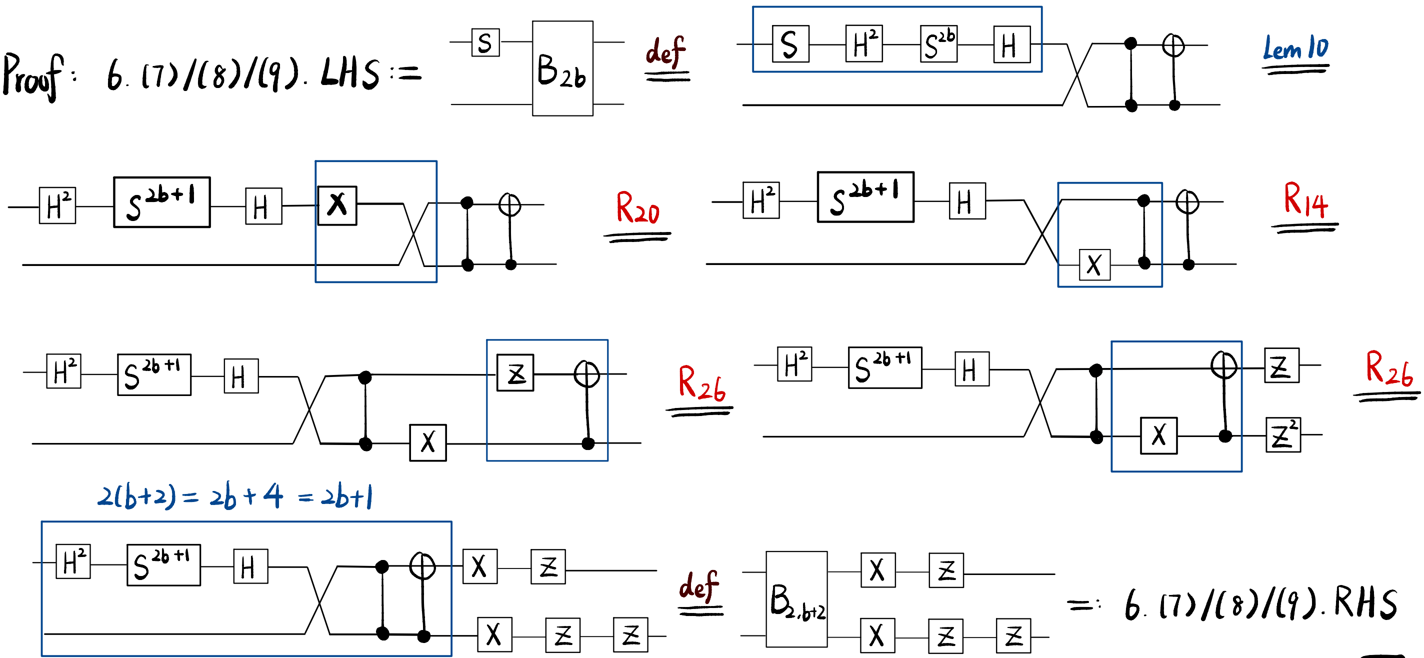
Lem 26 By Def 3, Lem 10, R_{14}, R_{20} & R_{26}, 6.(7)

(8)

(9)



Proof: 6.(7)/(8)/(9). LHS :=



□