

$$-C_0- = -$$

$$-C_1- = -H-S-H-H-S-S-H-$$

$$-C_2- = -H-S-S-H-H-S-H-$$

$$R5: -X- = -H-S-H-H-S-S-H- =: -C_1-$$

$$R7: -X^2- = -H-S-S-H-H-S-H- =: -C_2-$$

$$R9: X^3 = I$$

Lem 7 By definition, $R5$, $R7$ & $R9$, we have 17. $-X-C_c-$

$$(1) -X-C_0- = -C_1-$$

$$(2) -X-C_1- = -C_2-$$

$$(3) -X-C_2- = -C_0-$$

$$\text{Proof: } 17.(1). \text{ LHS} := -X- \stackrel{R5}{=} -C_1- = 17.(1). \text{ RHS}$$

$$17.(2). \text{ LHS} := -X-H-S-H-H-S-S-H-$$

$$\stackrel{R5}{=} -X-X- \stackrel{R7}{=} -C_2- = 17.(2). \text{ RHS}$$

$$17.(3). \text{ LHS} := -X-H-S-S-H-H-S-H-$$

$$\stackrel{R7}{=} -X-X-X- \stackrel{R9}{=} - =: -C_0- = 17.(3). \text{ RHS}$$

