

Step 5

$$\begin{array}{ccccc}
 & S^0 \wedge S^0 & \xrightarrow{\text{id}_{\text{Sets}_*|S^0,S^0}^{\otimes,-1}} & S^0 \otimes_{\text{Sets}_*} S^0 & \xrightarrow{S^0 \text{id}_{S^0} \wedge \text{id}_{\mathbb{1}|\text{Sets}_*}^{\otimes,-1}} \\
 \nearrow \rho_{S^0}^{\text{Sets}_*,-1} & \uparrow & & \downarrow & \\
 S^0 & \xrightarrow{\rho_{S^0}^{\prime,-1}} & S^0 \otimes_{\text{Sets}_*} \mathbb{1}_{\text{Sets}_*} & & \\
 \downarrow [x] & \downarrow [x] \wedge \text{id}_{S^0} & \downarrow [x] \otimes_{\text{Sets}_*} \text{id}_{S^0} & & \downarrow [x] \wedge \text{id}_{\mathbb{1}_{\text{Sets}_*}} \\
 (3) & & (4) & & \\
 & X \wedge S^0 & \xrightarrow{\text{id}_{\text{Sets}_*|X,S^0}^{\otimes,-1}} & X \otimes_{\text{Sets}_*} S^0 & \xrightarrow{-\text{id}_X \wedge \text{id}_{\mathbb{1}|\text{Sets}_*}^{\otimes,-1}} \\
 \nearrow \rho_X^{\text{Sets}_*,-1} & \uparrow & & \downarrow & \\
 X & \xrightarrow{\rho_X^{\prime,-1}} & X \otimes_{\text{Sets}_*} \mathbb{1}_{\text{Sets}_*} & & \\
 & (2) & & &
 \end{array}$$

(1) $\rho_{S^0}^{\prime,-1}$

(2) $\rho_X^{\prime,-1}$

(3) $[x]$

(4) $[x] \wedge \text{id}_{\mathbb{1}_{\text{Sets}_*}}$

(5) $\text{id}_{\text{Sets}_*|X,S^0}^{\otimes,-1}$

(6) $\rho_X^{\text{Sets}_*,-1}$

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