

$$\begin{array}{ccccc}
K & \longrightarrow & \mathbf{Free}(X) & \longrightarrow & X \\
\downarrow & & \downarrow & & \parallel \\
\tau_X : (K)^F & \dashrightarrow & \mathbf{Free}(X) \sqcup_K (K)^F & \dashrightarrow & X \\
\downarrow & & \downarrow & & \\
(K)^C & \xlongequal{\quad} & (K)^C & & 
\end{array}$$