t36_mcart_1 (TMFpV-vAjU4RsSRGPkFHyQ9y3H5FCV4TjbSZ)

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Let $k3\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.(k2\_zfmisc\_1\ (k1\_tarski\ X0)\ (k2\_tarski\ X1\ X2) = k2\_tarski\ (k4\_tarski\ X0\ X1)\ (k4\_tarski\ X0\ X2)) \wedge (k2\_zfmisc\_1\ (k2\_tarski\ X0\ X1)\ (k1\_tarski\ X2) = k2\_tarski\ (k4\_tarski\ X0\ X2)\ (k4\_tarski\ X1\ X2)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3\_xtuple\_0\ X0\ X1\ X2 = k4\_tarski\ (k4\_tarski\ X0\ X1)\ X2 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3\_zfmisc\_1\ X0\ X1\ X2 = k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)\ X2 \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.\forall X3.k3\_zfmisc\_1\ (k2\_tarski\ X0\ X1)\ (k1\_tarski\ X2)\ (k1\_tarski\ X3) = k2\_tarski\ (k3\_xtuple\_0\ X0\ X2\ X3)\ (k3\_xtuple\_0\ X1\ X2\ X3)$$