

t10_mcart_1
(TMWWt5qeftaqdScYg7t9GqCLvAtH7pT6U7Z)

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Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (k1_xtuple_0 (k4_tarski X0 X1) = X0) \wedge (k2_xtuple_0 (k4_tarski X0 X1) = X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_zfmisc_1 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow (\exists X4. \exists X5. (X4 \in X0) \wedge ((X5 \in X1) \wedge (X3 = k4_tarski X4 X5)))) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. (X0 \in k2_zfmisc_1 X1 X2) \Rightarrow ((k1_xtuple_0 X0 \in X1) \wedge (k2_xtuple_0 X0 \in X2))$$