

t80_mcart_1
(TMMgeJi2ftfBkXK18FhtB9nfLF3SoWDAhxj)

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Let $k6_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(k4_tarski\ X0\ X1 \in k2_zfmisc_1\ X2\ X3) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X3)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.k4_zfmisc_1\ X0\ X1\ X2\ X3 = k2_zfmisc_1\ (k2_zfmisc_1\ (k2_zfmisc_1\ X0\ X1)\ X2)\ X3 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.k6_xtuple_0\ X0\ X1\ X2\ X3 = k4_tarski\ (k3_xtuple_0\ X0\ X1\ X2)\ X3 \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3_xtuple_0\ X0\ X1\ X2 = k4_tarski\ (k4_tarski\ X0\ X1)\ X2 \quad (4)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\forall X6.\forall X7.(k6_xtuple_0\ X0\ X1\ X2\ X3 \in k4_zfmisc_1\ X4\ X5\ X6\ X7) \Leftrightarrow ((X0 \in X4) \wedge ((X1 \in X5) \wedge ((X2 \in X6) \wedge (X3 \in X7))))$$