

t19_mcart_1 (TMGQmwziSuPX- mAF8das2DmriP3QeUu7GrSq)

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Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (X0 \in k2_zfmisc_1 X1 X2) \Rightarrow ((k1_xtuple_0 X0 \in X1) \wedge (k2_xtuple_0 X0 \in X2)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. (X0 \in k2_zfmisc_1 (k2_tarski X1 X2) (k2_tarski X3 X4)) \Rightarrow (((k1_xtuple_0 X0 = X1) \vee (k1_xtuple_0 X0 = X2)) \wedge ((k2_xtuple_0 X0 = X3) \vee (k2_xtuple_0 X0 = X4)))$$