

t18_mcart_1

(TMU9TPAa5yRzxroWgW8BdUNEP3Vhkapw5CE)

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Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (X0 \in k2_zfmisc_1 \\ & X1 (k2_tarski X2 X3)) \Rightarrow ((k1_xtuple_0 X0 \in X1) \wedge ((k2_xtuple_0 X0 = \\ & X2) \vee (k2_xtuple_0 X0 = X3))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (X0 \in k2_zfmisc_1 (k1_tarski \\ & X1) X2) \Rightarrow ((k1_xtuple_0 X0 = X1) \wedge (k2_xtuple_0 X0 \in X2)) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (X0 \in k2_zfmisc_1 \\ & (k1_tarski X1) (k2_tarski X2 X3)) \Rightarrow ((k1_xtuple_0 X0 = X1) \wedge ((k2_xtuple_0 \\ & X0 = X2) \vee (k2_xtuple_0 X0 = X3))) \end{aligned}$$