

t38_mcart_1

(TMYT8nwZHMUCADpu3FebM6tHakuD3eQQJnB)

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Let $k3_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (k2_zfmisc_1 (k1_tarski X0) \\ & (k2_tarski X1 X2) = k2_tarski (k4_tarski X0 X1) (k4_tarski X0 X2)) \wedge \\ & (k2_zfmisc_1 (k2_tarski X0 X1) (k1_tarski X2) = k2_tarski (k4_tarski \\ & X0 X2) (k4_tarski X1 X2)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. k2_zfmisc_1 (k1_tarski X0) (k1_tarski X1) = k1_tarski (k4_tarski X0 X1) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k3_xtuple_0 X0 X1 X2 = k4_tarski (k4_tarski X0 X1) X2 \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k3_zfmisc_1 X0 X1 X2 = k2_zfmisc_1 (k2_zfmisc_1 X0 X1) X2 \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. k3_zfmisc_1 (k1_tarski \\ & X0) (k1_tarski X1) (k2_tarski X2 X3) = k2_tarski (k3_xtuple_0 X0 \\ & X1 X2) (k3_xtuple_0 X0 X1 X3) \end{aligned}$$