

t42_mcart_1 (TMVBz- zrBAAbVP7YN6VdQCogJSbEskGj2pSCc)

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Let $k3_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (k2_zfmisc_1 (k2_xboole_0 X0 \\ & X1) X2 = k2_xboole_0 (k2_zfmisc_1 X0 X2) (k2_zfmisc_1 X1 X2)) \wedge (k2_zfmisc_1 \\ & X2 (k2_xboole_0 X0 X1) = k2_xboole_0 (k2_zfmisc_1 X2 X0) (k2_zfmisc_1 \\ & X2 X1)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. k2_enumset1 X0 X1 \\ & X2 X3 = k2_enumset1 X0 X2 X1 X3 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. k2_enumset1 X0 X1 \\ & X2 X3 = k2_xboole_0 (k2_tarski X0 X1) (k2_tarski X2 X3) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. \forall X7. k6_enumset1 X0 X1 X2 X3 X4 X5 X6 X7 = k2_xboole_0 \\ & (k2_enumset1 X0 X1 X2 X3) (k2_enumset1 X4 X5 X6 X7) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. k2_zfmisc_1 (k2_tarski \\ & X0 X1) (k2_tarski X2 X3) = k2_enumset1 (k4_tarski X0 X2) (k4_tarski \\ & X0 X3) (k4_tarski X1 X2) (k4_tarski X1 X3) \end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k3_xtuple_0 X0 X1 X2 = k4_tarski \\ & (k4_tarski X0 X1) X2 \end{aligned} \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3_zfmisc_1 X0 X1 X2 = k2_zfmisc_1 (k2_zfmisc_1 X0 X1) X2 \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ & k3_zfmisc_1 (k2_tarski X0 X1) (k2_tarski X2 X3) (k2_tarski X4 X5) = \\ & k6_enumset1 (k3_xtuple_0 X0 X2 X4) (k3_xtuple_0 X0 X3 X4) (k3_xtuple_0 \\ & X0 X2 X5) (k3_xtuple_0 X0 X3 X5) (k3_xtuple_0 X1 X2 X4) (k3_xtuple_0 \\ & X1 X3 X4) (k3_xtuple_0 X1 X2 X5) (k3_xtuple_0 X1 X3 X5) \end{aligned}$$