

# t41\_mcart\_1 (TMdg- PaRq4YDvMrymrB6b8fppCcK7mfg3xUA)

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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  $k2\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  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  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. \forall X3. k2\_enumset1 X0 X1 \\ X2 X3 = k2\_enumset1 X0 X2 X1 X3 \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (k2\_zfmisc.1 (k1\_tarski X0) \\ (k2\_tarski X1 X2) = k2\_tarski (k4\_tarski X0 X1) (k4\_tarski X0 X2)) \wedge \\ (k2\_zfmisc.1 (k2\_tarski X0 X1) (k1\_tarski X2) = k2\_tarski (k4\_tarski \\ X0 X2) (k4\_tarski X1 X2)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. \forall X3. k2\_zfmisc.1 (k2\_tarski \\ X0 X1) (k2\_tarski X2 X3) = k2\_enumset1 (k4\_tarski X0 X2) (k4\_tarski \\ X0 X3) (k4\_tarski X1 X2) (k4\_tarski X1 X3) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. k3\_xtuple\_0 X0 X1 X2 = k4\_tarski \\ (k4\_tarski X0 X1) X2 \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. k3\_zfmisc.1 X0 X1 X2 = k2\_zfmisc.1 \\ (k2\_zfmisc.1 X0 X1) X2 \end{aligned} \quad (5)$$

## Theorem 1

$$\begin{aligned} \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. k3\_zfmisc.1 \\ (k1\_tarski X0) (k2\_tarski X1 X2) (k2\_tarski X3 X4) = k2\_enumset1 \\ (k3\_xtuple\_0 X0 X1 X3) (k3\_xtuple\_0 X0 X2 X3) (k3\_xtuple\_0 X0 X1 X4) \\ (k3\_xtuple\_0 X0 X2 X4) \end{aligned}$$