

# t37\_mcart\_1 (TMG85YGjDxs9iUAG4iK16FuF7gaftR7Pyro)

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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.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k3\_xtuple\_0 X0 X1 X2 = k4\_tarski \\ & (k4\_tarski X0 X1) X2 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k3\_zfmisc\_1 X0 X1 X2 = k2\_zfmisc\_1 \\ & (k2\_zfmisc\_1 X0 X1) X2 \end{aligned} \tag{3}$$

## Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. k3\_zfmisc\_1 (k1\_tarski \\ & X0) (k2\_tarski X1 X2) (k1\_tarski X3) = k2\_tarski (k3\_xtuple\_0 X0 \\ & X1 X3) (k3\_xtuple\_0 X0 X2 X3) \end{aligned}$$