

t15\_mcart\_1 (TMd-  
zoY5dCeYo2Ny2PTZhH6yBc84xubMAFUd)

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Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  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.

$$\forall X0. \forall X1. \forall X2. (X0 \in k2\_zfmisc\_1 X1 X2) \Rightarrow ((k1\_xtuple\_0 X0 \in X1) \wedge (k2\_xtuple\_0 X0 \in X2)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. \forall X3. (X0 \in k2\_zfmisc\_1 (k2\_tarski X1 X2) X3) \Rightarrow (((k1\_xtuple\_0 X0 = X1) \vee (k1\_xtuple\_0 X0 = X2)) \wedge (k2\_xtuple\_0 X0 \in X3))$$