

t70\_mcart\_1 (TM-  
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Let  $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. k3\_xtuple\_0 X0 X1 X2 = k4\_tarSKI (k4\_tarSKI X0 X1) X2 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k3\_zfmisc\_1 X0 X1 X2 = k2\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1) X2 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_zfmisc\_1 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow (\exists X4. \exists X5. (X4 \in X0) \wedge ((X5 \in X1) \wedge (X3 = k4\_tarSKI X4 X5)))) \quad (3)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. \forall X3. (\forall X4. (X4 \in X0) \Leftrightarrow (\exists X5. \exists X6. \exists X7. (X5 \in X1) \wedge ((X6 \in X2) \wedge ((X7 \in X3) \wedge (X4 = k3\_xtuple\_0 X5 X6 X7)))))) \Rightarrow (X0 = k3\_zfmisc\_1 X1 X2 X3)$$