

t48\_funct\_6  
(TML2UnD6AAkaMVyn9T1nukma5kqNuutvBED)

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Let  $k8\_funct.6 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_funcop.1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct.2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct.1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_funcop.1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_xtuple.0 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k10\_xtuple.0 : \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $v1\_relat.1 : \iota \Rightarrow o$  be given. Let  $v1\_funct.1 : \iota \Rightarrow o$  be given. Let  $k2\_zfmisc.1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (X1 \in X0) \Rightarrow (k1\_funct.1 (k2\_funcop.1 X0 X2) X1 = X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (k9\_xtuple.0 (k2\_funcop.1 X0 X1) = X0) \wedge (r1\_tarski (k10\_xtuple.0 (k2\_funcop.1 X0 X1)) (k1\_tarski X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k7\_funcop.1 X0 X1 = k2\_funcop.1 X0 X1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_relat.1 (k2\_funcop.1 X0 X1)) \wedge (v1\_funct.1 (k2\_funcop.1 X0 X1)) \quad (4)$$

Assume the following.

$$\forall X0. ((v1\_relat.1 X0) \wedge (v1\_funct.1 X0)) \Rightarrow (\forall X1. \forall X2. ((v1\_relat.1 X2) \wedge (v1\_funct.1 X2)) \Rightarrow ((X2 = k8\_funct.6 X0 X1) \Leftrightarrow ((k9\_xtuple.0 X2 = k9\_xtuple.0 X0) \wedge (\forall X3. (X3 \in k9\_xtuple.0 X0) \Rightarrow (k1\_funct.1 X2 X3 = k1\_funct.2 (k1\_funct.1 X0 X3) X1)))))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. k2\_funcop.1 X0 X1 = k2\_zfmisc.1 X0 (k1\_tarski X1) \quad (6)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. k8\_funct.6 (k7\_funcop.1 X0 X1) X2 = k7\_funcop.1 X0 (k1\_funct.2 X1 X2)$$