

t70\_funcop\_1  
(TMQi9y5ganTF4i4eQhKNcMfRrzq52LoBR1R)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. \neg v1\_xboole\_0 (k1\_tarski X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_funct\_1 (k7\_funcop\_1 X0 X1)) \wedge ((v1\_funct\_2 (k7\_funcop\_1 X0 X1) X0 (k1\_tarski X1)) \wedge (m1\_subset\_1 (k7\_funcop\_1 X0 X1) (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 (k1\_tarski X1)))))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. ((\neg v1\_xboole\_0 X0) \wedge (\neg v1\_xboole\_0 X1) \wedge ((v1\_funct\_1 X3) \wedge (v1\_funct\_2 X3 (k2\_zfmisc\_1 X0 X1) X2) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1) X2)))))) \wedge ((m1\_subset\_1 X4 X0) \wedge (m1\_subset\_1 X5 X1)))) \Rightarrow (m1\_subset\_1 (k2\_binop\_1 X0 X1 X2 X3 X4 X5) X2) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1\_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (5)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. (\neg v1\_xboole\_0 \\ & X2) \Rightarrow (\forall X3. (m1\_subset\_1 X3 X1) \Rightarrow (\forall X4. (m1\_subset\_1 \\ & X4 X2) \Rightarrow (k2\_binop\_1 X1 X2 (k1\_tarski X0) (k7\_funcop\_1 (k2\_zfmisc\_1 \\ & X1 X2) X0) X3 X4 = X0)))) \end{aligned}$$