

t77_funcop_1 (TM- SYv3VUw9DubSj55k2JzvH8ZyCAFAQ6Mew)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ 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.

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1_xboole_0 X1) \Rightarrow (\forall X2. (\neg v1_xboole_0 \\ & X2) \Rightarrow (\forall X3. (m1_subset_1 X3 X1) \Rightarrow (\forall X4. (m1_subset_1 \\ & X4 X2) \Rightarrow (k2_binop_1 X1 X2 (k1_tarski X0) (k7_funcop_1 (k2_zfmisc_1 \\ & X1 X2) X0) X3 X4 = X0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k1_tarski X0) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (v1_funct_1 (k7_funcop_1 X0 X1)) \wedge ((v1_funct_2 \\ & (k7_funcop_1 X0 X1) X0 (k1_tarski X1)) \wedge (m1_subset_1 (k7_funcop_1 \\ & X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 X0 (k1_tarski X1)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v1_funct_1 X3) \wedge \\ & ((v1_funct_2 X3 (k2_zfmisc_1 (k1_tarski X0) (k1_tarski X1)) (k1_tarski \\ & X2)) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 \\ & (k1_tarski X0) (k1_tarski X1)) (k1_tarski X2)))))) \Rightarrow (X3 = k17_funcop_1 \\ & X0 X1 X2) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (m1_subset_1 X3 (\\ & k1_tarski X0)) \Rightarrow (\forall X4. (m1_subset_1 X4 (k1_tarski X1)) \Rightarrow (\\ & k2_binop_1 (k1_tarski X0) (k1_tarski X1) (k1_tarski X2) (k17_funcop_1 \\ & X0 X1 X2) X3 X4 = X2)) \end{aligned}$$