

t81_funct_4

(TMdr4Gm2RNjrNPJUNrNYD4w9FQQb9EcyEXy)

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Let $k4_funct.4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_funcop.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat.1 : \iota \Rightarrow o$ be given. Let $v1_funct.1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple.0 : \iota \Rightarrow \iota$ be given. Let $k1_funct.4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_funcop.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xtuple.0 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k7_funcop.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat.1 X0) \wedge (v1_funct.1 X0)) \Rightarrow (\forall X1.((\\ v1_relat.1 X1) \wedge (v1_funct.1 X1)) \Rightarrow ((r1_tarski (k9_xtuple.0 X0) \\ (k9_xtuple.0 X1)) \Rightarrow (k1_funct.4 X0 X1 = X1))) \end{aligned} \quad (1)$$

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.

$$\forall X0. \forall X1. r1_tarski X0 X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k7_funcop.1 X0 X1 = k2_funcop.1 X0 X1 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat.1 (k16_funcop.1 X0 X1)) \wedge (v1_funct.1 \\ (k16_funcop.1 X0 X1)) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (v1_funct.1 (k7_funcop.1 X0 X1)) \wedge ((v1_funct.2 \\ (k7_funcop.1 X0 X1) X0 (k1_tarski X1)) \wedge (m1_subset.1 (k7_funcop.1 \\ X0 X1) (k1_zfmisc.1 (k2_zfmisc.1 X0 (k1_tarski X1)))))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.k16_funcop_1 X0 X1 = k7_funcop_1 (k1_tarski X0) X1 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.k4_funct_4 X0 X1 X2 X3 = k1_funct_4 (k16_funcop_1 X0 X2) (k16_funcop_1 X1 X3) \quad (8)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.k4_funct_4 X0 X0 X1 X2 = k16_funcop_1 X0 X2$$