

t8_functor0
(TMF6CGrtiBM7YvWWqKUX4w79ARYZMgaywT9)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $k2_funct_4 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \neg(r1_tarski X0 (k2_zfmisc_1 X1 X2)) \wedge ((X3 \in X0) \wedge (\forall X4. \forall X5. \neg(X4 \in X1) \wedge ((X5 \in X2) \wedge (X3 = k4_tarski X4 X5)))) \quad (1)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\exists X1. \exists X2. r1_tarski (k9_xtuple_0 (k2_funct_4 X0)) (k2_zfmisc_1 X1 X2)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow ((k4_tarski X0 X1 \in k9_xtuple_0 (k2_funct_4 X2)) \Rightarrow (k1_binop_1 (k2_funct_4 X2) X0 X1 = k1_binop_1 X2 X1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow ((k4_tarski X0 X1 \in k9_xtuple_0 X2) \Leftrightarrow (k4_tarski X1 X0 \in k9_xtuple_0 (k2_funct_4 X2))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4_tarski X0 X1 = k4_tarski X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)) \quad (5)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v1_relat_1 (k2_funct_4 X0)) \wedge (v1_funct_1 (k2_funct_4 X0))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.k4_tarSKI X0 X1 = k2_tarSKI (k2_tarSKI X0 X1) (k1_tarSKI X0) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0)\wedge(v1_funct_1 X0))\Rightarrow((v2_funct_1 X0)\Leftrightarrow \\ (\forall X1.\forall X2.((X1 \in k9_xtuple_0 X0)\wedge((X2 \in k9_xtuple_0 X0)\wedge(k1_funct_1 X0 X1 = k1_funct_1 X0 X2))))\Rightarrow(X1 = X2))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge(v1_funct_1 X0))\Rightarrow(\forall X1.\forall X2.k1_binop_1 X0 X1 X2 = k1_funct_1 X0 (k4_tarSKI X1 X2)) \quad (9)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0)\wedge(v1_funct_1 X0))\Rightarrow((v2_funct_1 X0)\Rightarrow (v2_funct_1 (k2_funct_4 X0)))$$