

t3_abcmiz_1
(TMPXoLcVnUpcZXE_{N62t85vCxwiib7wAqRai})

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k4_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarSKI : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \neg(k2_tarSKI X0 X1 = k2_tarSKI X2 X3) \wedge ((X0 \neq X2) \wedge (X0 \neq X3)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (k1_tarSKI X0 = k2_tarSKI X1 X2) \Rightarrow (X1 = X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (k1_tarSKI X0 = k2_tarSKI X1 X2) \Rightarrow (X0 = X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k4_tarSKI X0 X1 = k2_tarSKI (k2_tarSKI X0 X1) (k1_tarSKI X0) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_tarSKI X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (5)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Leftrightarrow (\forall X1. \neg(X1 \in X0) \wedge (\forall X2. \forall X3. X1 \neq k4_tarSKI X2 X3)) \quad (6)$$

Assume the following.

$$\forall X0. (v1_funct_1 X0) \Leftrightarrow (\forall X1. \forall X2. \forall X3. ((k4_tarSKI X1 X2 \in X0) \wedge (k4_tarSKI X1 X3 \in X0)) \Rightarrow (X2 = X3)) \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. k2_tarSKI X0 X1 = k2_tarSKI X1 X0 \quad (8)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1. \forall X2. \\ (X0 = k4_tarski X1 X2) \Rightarrow (X1 = X2))$$