

t7_funct_3

(TMaFr3qQbtYaEK2QV9NX561EdQqNstjDATp)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_3 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v1_relat_1 (k1_funct_3 X0)) \wedge (v1_funct_1 (k1_funct_3 X0))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_zfmisc_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (r1_tarski X2 X0)) \quad (2)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow ((X1 = k1_funct_3 X0) \Leftrightarrow ((k9_xtuple_0 X1 = k1_zfmisc_1 (k9_xtuple_0 X0)) \wedge (\forall X2. (r1_tarski X2 (k9_xtuple_0 X0)) \Rightarrow (k1_funct_1 X1 X2 = k7_relat_1 X0 X2)))))) \quad (3)$$

Theorem 1

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow ((X0 \in k9_xtuple_0 (k1_funct_3 X1)) \Rightarrow (k1_funct_1 (k1_funct_3 X1) X0 = k7_relat_1 X1 X0))$$