

t8_yellow15

(TMamhotHRYq48uC7mhfkVAj2Cr82UVHwQF4)

October 27, 2020

Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_margrel1 : \iota$ be given. Let $k1_yellow15 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_margrel1 : \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (k4_finseq_1 X0 = k9_xtuple_0 X0) \quad (2)$$

Assume the following.

$$\forall X0. v1_xboole_0 (k6_finseq_1 X0) \quad (3)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (v1_xboole_0 (k9_xtuple_0 X0)) \quad (4)$$

Assume the following.

$$\forall X0. m2_finseq_1 (k6_finseq_1 X0) X0 \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m2_finseq_1 X1 (k9_setfam_1 X0)) \Rightarrow (\forall X2. \\ & (m2_finseq_1 X2 k6_margrel1) \Rightarrow (\forall X3. (m2_finseq_1 X3 (k9_setfam_1 \\ & X0)) \Rightarrow ((X3 = k1_yellow15 X0 X1 X2) \Leftrightarrow ((k3_finseq_1 X3 = k3_finseq_1 \\ & X1) \wedge (\forall X4. (v7_ordinal1 X4) \Rightarrow ((X4 \in k4_finseq_1 X1) \Rightarrow (k1_funct_1 \\ & X3 X4 = k14_funcop_1 (k1_funct_1 X2 X4) k8_margrel1 (k1_funct_1 \\ & X1 X4) (k6_subset_1 X0 (k1_funct_1 X1 X4)))))))))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v1_relat_1 X0) \quad (7)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v1_funct_1 X0) \quad (8)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_xboole_0 X0)) \Rightarrow ((v1_relat_1 X0) \wedge (v1_finseq_1 X0)) \quad (9)$$

Theorem 1

$$\forall X0.\forall X1.(m2_finseq_1 X1 k6_margrel1) \Rightarrow (k1_yellow15 X0 (k6_finseq_1 (k9_setfam_1 X0)) X1 = k6_finseq_1 (k9_setfam_1 X0))$$