

t30_topgen_4
(TMF95AGXGqNM4g5Bud23ncFFKmmCitoH8Yb)

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Let $k2_setfam_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \neg(X0 \neq k1_xboole_0) \wedge (\forall X1. \neg X1 \in X0) \quad (1)$$

Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (X2 = k2_setfam_1 \ X0 \ X1) \Leftrightarrow (\forall X3. \\ (X3 \in X2) \Leftrightarrow (\exists X4. \exists X5. (X4 \in X0) \wedge ((X5 \in X1) \wedge (X3 = k2_xboole_0 \\ X4 \ X5)))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. \neg(k2_setfam_1 \ X0 \ X1 = k1_xboole_0) \wedge ((X0 \neq k1_xboole_0) \wedge (X1 \neq k1_xboole_0))$$