

t11_setfam_1 (TMHZ- FALkaP8n1CKPaUojsHtykAy1cAtHfbW)

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Let $k1_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \neg (X0 \neq k1_xboole_0) \wedge ((X1 \neq k1_xboole_0) \wedge \\ & (k1_setfam_1 (k2_xboole_0 X0 X1) \neq k3_xboole_0 (k1_setfam_1 X0) \\ & (k1_setfam_1 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k2_xboole_0 (k2_tarski X0 X1) \\ & X2 \neq k1_xboole_0 \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. k2_tarski X0 X0 = k1_tarski X0 \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. k2_tarski X0 X1 = k2_xboole_0 (k1_tarski \\ & X0) (k1_tarski X1) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. k1_setfam_1 (k1_tarski X0) = X0 \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X0 = X0 \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. k1_setfam_1 (k2_tarski X0 X1) = k3_xboole_0 \\ & X0 X1 \end{aligned}$$