

t26_yellow_2

(TMXb4s1U8p7KDErgNGZWvi2bYTiXRKE8MF5)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r2_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_yellow_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & ((r2_yellow_0 X0 X1) \vee (r2_yellow_0 X0 (k3_xboole_0 X1 (u1_struct_0 \\ & X0)))) \Rightarrow (k2_yellow_0 X0 X1 = k2_yellow_0 X0 (k3_xboole_0 X1 (u1_struct_0 \\ & X0)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & ((r1_yellow_0 X0 X1) \Rightarrow (r1_yellow_0 X0 (k3_xboole_0 X1 (u1_struct_0 \\ & X0)))) \wedge (((r1_yellow_0 X0 (k3_xboole_0 X1 (u1_struct_0 X0))) \Rightarrow \\ & (r1_yellow_0 X0 X1)) \wedge (((r2_yellow_0 X0 X1) \Rightarrow (r2_yellow_0 X0 (k3_xboole_0 \\ & X1 (u1_struct_0 X0)))) \wedge ((r2_yellow_0 X0 (k3_xboole_0 X1 (u1_struct_0 \\ & X0))) \Rightarrow (r2_yellow_0 X0 X1)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski (k3_xboole_0 X0 X1) X0 \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. k3_xboole_0 X0 X1 = k3_xboole_0 X1 X0 \tag{5}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow ((\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (r2_yellow_0 \\ X0 X1)) \Rightarrow (\forall X1.(r2_yellow_0 X0 X1) \wedge (k2_yellow_0 X0 X1 = k2_yellow_0 \\ & X0 (k3_xboole_0 X1 (u1_struct_0 X0)))))) \end{aligned}$$