

t13_waybel10

(TMHUPKZ8pt6dnzKq4QcPQhRuJKcJntgpnqp)

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Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v4_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.((v4_yellow_0 X1 X0) \wedge \\ (m1_yellow_0 X1 X0) \Rightarrow (\forall X2.((v4_yellow_0 X2 X0) \wedge (m1_yellow_0 \\ X2 X0) \Rightarrow ((r1_tarski (u1_struct_0 X1) (u1_struct_0 X2)) \Rightarrow (r1_relset_1 \\ (u1_struct_0 X1) (u1_struct_0 X1) (u1_orders_2 X1) (u1_orders_2 \\ X2))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.\forall X3.(m1_subset_1 X2 (\\ k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow ((r1_relset_1 X0 X1 X2 X3) \Leftrightarrow (\\ r1_tarski X2 X3)) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (m1_subset_1 (u1_orders_2 X0) (k1_zfmisc_1 \\ (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)))) \tag{3}$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_yellow_0 X1 X0) \Rightarrow \\ (l1_orders_2 X1)) \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(l1_orders_2 X1) \Rightarrow ((\\ m1_yellow_0 X1 X0) \Leftrightarrow ((r1_tarski (u1_struct_0 X1) (u1_struct_0 \\ X0)) \wedge (r1_tarski (u1_orders_2 X1) (u1_orders_2 X0)))))) \end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v3_orders_2 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & ((v4_yellow_0 X1 X0) \wedge (m1_yellow_0 X1 X0)) \Rightarrow (\forall X2.((v4_yellow_0 \\ & X2 X0) \wedge (m1_yellow_0 X2 X0)) \Rightarrow ((r1_tarski (u1_struct_0 X1) (u1_struct_0 \\ & X2)) \Rightarrow (m1_yellow_0 X1 X2)))) \end{aligned}$$