

t29_waybel11

(TMXRtz7yeY7iQEPToXhX3ZXUjbrqigXKvZb)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_waybel11 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_yellow.6 : \iota \Rightarrow \iota$ be given. Let $v6_orders_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_classes1 : \iota \Rightarrow \iota$ be given. Let $k1_classes1 : \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v6_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_waybel_0 : \iota \Rightarrow o$ be given. Let $l1_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_yellow.6 : \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_funct.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_waybel_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge (l1_orders_2 \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow ((v6_orders_2 \\ & (k6_domain_1 (u1_struct_0 X0) X1) X0) \wedge (m1_subset_1 (k6_domain_1 \\ & (u1_struct_0 X0) X1) (k1_zfmisc_1 (u1_struct_0 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.r1_tarski X0 (k5_classes1 X0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in k1_classes1 X1) \wedge (r1_tarski X2 X0)) \Rightarrow (X2 \in k1_classes1 X1) \quad (4)$$

Assume the following.

$$\forall X0.X0 \in k1_classes1 X0 \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((\neg v2_struct_0 X0)\wedge(l1_struct_0 X0))\wedge \\ & (m1_subset_1 X1 (u1_struct_0 X0)))\Rightarrow((v3_orders_2 (k4_waybel11 \\ & X0 X1))\wedge((v4_orders_2 (k4_waybel11 X0 X1))\wedge((v5_orders_2 (k4_waybel11 \\ & X0 X1))\wedge((v6_waybel_0 (k4_waybel11 X0 X1) X0)\wedge(v7_waybel_0 (k4_waybel11 \\ & X0 X1)))))) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((\neg v2_struct_0 X0)\wedge(l1_struct_0 X0))\wedge \\ & (m1_subset_1 X1 (u1_struct_0 X0)))\Rightarrow((\neg v2_struct_0 (k4_waybel11 \\ & X0 X1))\wedge(v6_waybel_0 (k4_waybel11 X0 X1) X0)) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0)\Rightarrow(l1_struct_0 X0) \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((\neg v2_struct_0 X0)\wedge(l1_struct_0 X0))\wedge \\ & (m1_subset_1 X1 (u1_struct_0 X0)))\Rightarrow((v6_waybel_0 (k4_waybel11 \\ & X0 X1) X0)\wedge(l1_waybel_0 (k4_waybel11 X0 X1) X0)) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0.k1_yellow_6 X0 = k1_classes1 (k5_classes1 X0) \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0)\wedge(l1_struct_0 X0))\Rightarrow(\forall X1. \\ & (X1 = k6_yellow_6 X0)\Leftrightarrow(\forall X2.(X2 \in X1)\Leftrightarrow(\exists X3.((\neg v2_struct_0 \\ & X3)\wedge((v4_orders_2 X3)\wedge((v6_waybel_0 X3 X0)\wedge((v7_waybel_0 X3)\wedge \\ & (l1_waybel_0 X3 X0))))))\wedge((X3 = X2)\wedge(u1_struct_0 X3 \in k1_yellow_6 \\ & (u1_struct_0 X0)))))) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0)\wedge(l1_struct_0 X0))\Rightarrow(\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0))\Rightarrow(\forall X2.((v6_waybel_0 \\ & X2 X0)\wedge(l1_waybel_0 X2 X0))\Rightarrow((X2 = k4_waybel11 X0 X1)\Leftrightarrow((u1_struct_0 \\ & X2 = k6_domain_1 (u1_struct_0 X0) X1)\wedge((u1_orders_2 X2 = k6_domain_1 \\ & (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)) (k1_domain_1 \\ & (u1_struct_0 X0) (u1_struct_0 X0) X1 X1))\wedge(r1_funct_2 (u1_struct_0 \\ & X2) (u1_struct_0 X0) (k6_domain_1 (u1_struct_0 X0) X1) (k6_domain_1 \\ & (u1_struct_0 X0) X1) (u1_waybel_0 X0 X2) (k6_partfun1 (k6_domain_1 \\ & (u1_struct_0 X0) X1))))))))) \end{aligned} \quad (12)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge (l1_orders_2 X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (k4_waybel11 X0 X1 \in k6_yellow_6 X0))$$