

t1_taxonom2 (TMVgHiSHX-
gaNYzwGCPY3HMF6kWtKNreDdJX)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v1_taxonom2 : \iota \Rightarrow o$ be given. Let $v2_taxonom2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k1_wellord2 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_relat_2 : \iota \Rightarrow o$ be given. Let $v4_relat_2 : \iota \Rightarrow o$ be given. Let $v8_relat_2 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_orders_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relat_1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r8_orders_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. k1_yellow_1 X0 = k1_wellord2 X0 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))) \Rightarrow (\forall X2. \forall X3. (g1_orders_2 X0 X1 = g1_orders_2 X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \quad (3)$$

Assume the following.

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((\neg v2_struct_0 (k2_yellow_1 X0)) \wedge (v1_orders_2 (k2_yellow_1 X0))) \quad (4)$$

Assume the following.

$$\forall X0. (v1_orders_2 (k2_yellow_1 X0)) \wedge ((v3_orders_2 (k2_yellow_1 X0)) \wedge ((v4_orders_2 (k2_yellow_1 X0)) \wedge (v5_orders_2 (k2_yellow_1 X0)))) \quad (5)$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k1_tarSKI X0) \quad (6)$$

Assume the following.

$$\forall X0. \exists X1. m1_subset_1 X1 X0 \quad (7)$$

Assume the following.

$$\forall X0. (v1_orders_2 (k2_yellow_1 X0)) \wedge (l1_orders_2 (k2_yellow_1 X0)) \quad (8)$$

Assume the following.

$$\forall X0. (v1_relat_2 (k1_yellow_1 X0)) \wedge ((v4_relat_2 (k1_yellow_1 X0)) \wedge ((v8_relat_2 (k1_yellow_1 X0)) \wedge ((v1_partfun1 (k1_yellow_1 X0) X0) \wedge (m1_subset_1 (k1_yellow_1 X0) (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \quad (9)$$

Assume the following.

$$\forall X0. v1_relat_1 (k1_wellord2 X0) \quad (10)$$

Assume the following.

$$\forall X0. (l1_orders_2 X0) \Rightarrow ((v2_taxonom2 X0) \Leftrightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\neg(\exists X3. (m1_subset_1 X3 (u1_struct_0 X0)) \wedge ((r1_orders_2 X0 X3 X1) \wedge (r1_orders_2 X0 X3 X2)))) \wedge ((\neg r1_orders_2 X0 X1 X2) \wedge (\neg r1_orders_2 X0 X2 X1)))))) \quad (11)$$

Assume the following.

$$\forall X0. k2_yellow_1 X0 = g1_orders_2 X0 (k1_yellow_1 X0) \quad (12)$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow ((X1 = k1_wellord2 X0) \Leftrightarrow ((k1_relat_1 X1 = X0) \wedge (\forall X2. \forall X3. ((X2 \in X0) \wedge (X3 \in X0)) \Rightarrow ((k4_tarSKI X2 X3 \in X1) \Leftrightarrow (r1_tarSKI X2 X3)))))) \quad (13)$$

Assume the following.

$$\forall X0. (l1_orders_2 X0) \Rightarrow ((v1_taxonom2 X0) \Leftrightarrow (\exists X1. (m1_subset_1 X1 (u1_struct_0 X0)) \wedge (r8_orders_1 (u1_orders_2 X0 X1)))) \quad (14)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarSKI X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (15)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(r8_orders_1 X0 X1) \Leftrightarrow (\\ (X1 \in k1_relat_1 X0) \wedge (\forall X2.(X2 \in k1_relat_1 X0) \Rightarrow ((X2 = X1) \vee \\ (k4_tarski X2 X1 \in X0)))))) \end{aligned} \quad (16)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow ((v1_orders_2 X0) \Rightarrow (X0 = g1_orders_2 \\ (u1_struct_0 X0) (u1_orders_2 X0))) \end{aligned} \quad (17)$$

Theorem 1

$$\begin{aligned} \forall X0.(\neg v2_struct_0 (k2_yellow_1 (k1_tarski (k1_tarski \\ X0)))) \wedge ((v3_orders_2 (k2_yellow_1 (k1_tarski (k1_tarski X0)))) \wedge \\ ((v4_orders_2 (k2_yellow_1 (k1_tarski (k1_tarski X0)))) \wedge ((v5_orders_2 \\ (k2_yellow_1 (k1_tarski (k1_tarski X0)))) \wedge ((v1_taxonom2 (k2_yellow_1 \\ (k1_tarski (k1_tarski X0)))) \wedge (v2_taxonom2 (k2_yellow_1 (k1_tarski \\ (k1_tarski X0)))))))))) \end{aligned}$$