

t14_wellord2

(TMH3unWxCBHt3aYubAm6WEoBe1LYh6DkUDk)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_wellord2 : \iota \Rightarrow \iota$ be given. Let $k1_wellord2 : \iota \Rightarrow \iota$ be given. Let $k1_wellord1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_wellord1 : \iota \Rightarrow o$ be given. Let $k2_wellord1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k1_relat_1 : \iota \Rightarrow \iota$ be given. Let $r4_wellord1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow ((X0 \in X1) \Rightarrow (X0 = k1_wellord1 (k1_wellord2 X1) X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(r1_tarski X1 X0) \Rightarrow (v2_wellord1 (k1_wellord2 X1))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski X0 X1) \Rightarrow (k2_wellord1 (k1_wellord2 X1) X0 = k1_wellord2 X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(v1_relat_1 X1) \Rightarrow (\neg(r1_tarski X0 (k1_relat_1 X1)) \wedge ((v2_wellord1 X1) \wedge ((\neg r4_wellord1 X1 (k2_wellord1 X1 X0)) \wedge (\forall X2.\neg(X2 \in k1_relat_1 X1) \wedge (r4_wellord1 (k2_wellord1 X1 (k1_wellord1 X1 X2)) (k2_wellord1 X1 X0)))))) \quad (4)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(v1_relat_1 X1) \Rightarrow ((r4_wellord1 X0 X1) \Rightarrow (r4_wellord1 X1 X0))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.r1_tarSKI X0 X0 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v3_ordinal1 X0)\wedge(v3_ordinal1 X1))\Rightarrow(r1_ordinal1 X0 X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v3_ordinal1 X0)\wedge(v3_ordinal1 X1))\Rightarrow(r1_ordinal1 X0 X1)\Leftrightarrow(r1_tarSKI X0 X1) \quad (9)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_relat_1 X0)\Rightarrow((v2_wellord1 X0)\Rightarrow(\forall X1.(v3_ordinal1 X1)\Rightarrow((X1 = k2_wellord2 X0)\Leftrightarrow(r4_wellord1 X0 (k1_wellord2 X1)))))) \quad (11)$$

Assume the following.

$$\forall X0.(v1_ordinal1 X0)\Leftrightarrow(\forall X1.(X1 \in X0)\Rightarrow(r1_tarSKI X1 X0)) \quad (12)$$

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.

$$\forall X0.(v3_ordinal1 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 X0)\Rightarrow(v3_ordinal1 X1)) \quad (14)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0)\Rightarrow((v1_ordinal1 X0)\wedge(v2_ordinal1 X0)) \quad (15)$$

Theorem 1

$$\forall X0.\forall X1.(v3_ordinal1 X1)\Rightarrow((r1_tarSKI X0 X1)\Rightarrow(r1_ordinal1 (k2_wellord2 (k1_wellord2 X0)) X1))$$