

t18_ordinal6 (TMRqFndxAPaTLJ- naT7d4fMwTop8VMmS7t1T)

October 27, 2020

Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_ordinal6 : \iota \Rightarrow \iota$ be given. Let $k1_ordinal6 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_ordinal2 : \iota \Rightarrow o$ be given. Let $k3_wellord1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_wellord2 : \iota \Rightarrow \iota$ be given. Let $k2_wellord2 : \iota \Rightarrow \iota$ be given. Let $v2_ordinal2 : \iota \Rightarrow o$ be given. Let $v1_ordinal6 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1. \neg(r1_tarski X1 X0) \wedge \\ \forall X2. ((v1_relat_1 X2) \wedge ((v1_funct_1 X2) \wedge ((v5_ordinal1 \\ X2) \wedge (v1_ordinal2 X2)))) \Rightarrow (\neg(X2 = k3_wellord1 (k1_wellord2 (k2_wellord2 \\ (k1_wellord2 X1))) (k1_wellord2 X1)) \wedge ((v2_ordinal2 X2) \wedge ((k9_xtuple_0 \\ X2 = k2_wellord2 (k1_wellord2 X1)) \wedge (k10_xtuple_0 X2 = X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.v1_ordinal6 (k2_ordinal1 X0) \quad (2)$$

Assume the following.

$$\forall X0.k2_ordinal6 X0 = k3_wellord1 (k1_wellord2 (k1_ordinal6 X0)) (k1_wellord2 (k2_ordinal1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.k1_ordinal6 X0 = k2_wellord2 (k1_wellord2 (k2_ordinal1 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(v1_ordinal6 X0) \Leftrightarrow (\exists X1.(v3_ordinal1 X1) \wedge (r1_tarski X0 X1)) \quad (5)$$

Theorem 1

$$\forall X0.(k9_xtuple_0 (k2_ordinal6 X0) = k1_ordinal6 X0) \wedge (k10_xtuple_0 (k2_ordinal6 X0) = k2_ordinal1 X0)$$