

t2_wellfnd1

(TMY4PNYc6WU4vjm1QksRvhUvDcjowWtGygz)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $v1_card_5 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k3_ordinal2 : \iota \Rightarrow \iota$ be given. Let $k1_card_5 : \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (v1_card_1 X1) \Rightarrow & (((r1_tarski X0 X1) \wedge (k1_card_1 \\ X0 \in k1_card_5 X1)) \Rightarrow & ((k3_ordinal2 X0 \in X1) \wedge (k3_tarski X0 \in X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v1_finset_1 X0) \wedge (v1_card_1 X0)) \Rightarrow ((v1_card_5 X0) \Leftrightarrow (k1_card_5 X0 = X0)) \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. ((\neg v1_finset_1 X0) \wedge & ((v1_card_1 X0) \wedge (v1_card_5 X0))) \Rightarrow \\ (\forall X1. ((r1_tarski X1 X0) \wedge & (k1_card_1 X1 \in X0)) \Rightarrow (k3_ordinal2 \\ & X1 \in X0)) \end{aligned}$$