

t31_zfrefle1 (TMVWywD- dJEYYqtBHx41otzknv5pNmDkvBpX)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_classes2 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ be given. Let $k2_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v2_classes1 : \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow (\forall X1. ((v3_ordinal1 X1) \wedge (m1_subset_1 X1 X0)) \Leftrightarrow (X1 \in k2_ordinal1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.((v2_classes1 X1) \wedge (X0 \in k2_ordinal1 X1)) \Rightarrow ((k1_card_1 (k4_classes1 X0) \in k1_card_1 X1) \wedge (k4_classes1 X0 \in X1))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_classes2 X0) \Rightarrow ((v1_ordinal1 X0) \wedge (v2_classes1 X0)) \quad (3)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow (\forall X1. ((v3_ordinal1 X1) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k4_classes1 X1 \in X0))$$