

t35_ordinal5 (TM- NGxu8KpAphswuKLFbqVkjUmzto4Pxxq3NK)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_ordinal5 : \iota \Rightarrow \iota$ be given. Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Let $v4_ordinal5 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_ordinal1 X2) \Rightarrow (((X0 \in X1) \wedge (X1 \in X2)) \Rightarrow (X0 \in X2)) \quad (1)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow ((v3_ordinal1 (k2_ordinal5 X0)) \wedge (v4_ordinal5 (k2_ordinal5 X0))) \quad (2)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (\forall X1. ((v3_ordinal1 X1) \wedge (v4_ordinal5 X1)) \Rightarrow ((X1 = k2_ordinal5 X0) \Leftrightarrow ((X0 \in X1) \wedge (\forall X2. ((v3_ordinal1 X2) \wedge (v4_ordinal5 X2)) \Rightarrow ((X0 \in X2) \Rightarrow (r1_ordinal1 X1 X2)))))) \quad (3)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow ((v1_ordinal1 X0) \wedge (v2_ordinal1 X0)) \quad (4)$$

Theorem 1

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (\forall X1. (v3_ordinal1 X1) \Rightarrow ((X0 \in X1) \wedge (X1 \in k2_ordinal5 X0)) \Rightarrow (k2_ordinal5 X1 = k2_ordinal5 X0))$$