

t71_ordinal3

(TMJYFDycqqkkUdcD7kasXXXigRYJj6zSm1r)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k6_ordinal3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k7_ordinal3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k11_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (k7_ordinal3 (k11_ordinal2 X0 X1) X1 = k1_xboole_0)) \quad (1)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow ((X0 \neq k1_xboole_0) \Rightarrow (k6_ordinal3 (k11_ordinal2 X1 X0) X0 = X1))) \quad (2)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow ((k11_ordinal2 np_1 X0 = X0) \wedge (k11_ordinal2 X0 np_1 = X0)) \quad (3)$$

Assume the following.

$$\neg v1_xboole_0 np_1 \quad (4)$$

Assume the following.

$$np_1 = k1_ordinal1 k1_xboole_0 \quad (5)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow ((\neg v1_xboole_0 (k1_ordinal1 X0)) \wedge (v3_ordinal1 (k1_ordinal1 X0))) \quad (6)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (7)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v3_ordinal1 X0) \quad (8)$$

Theorem 1

$$\forall X0.(v3_ordinal1 X0) \Rightarrow ((k6_ordinal3 X0 np_1 = X0) \wedge (k7_ordinal3 X0 np_1 = k1_xboole_0))$$