

t16_ordinal5

(TMWuZCY2L2BoXrFYy6DpfKSb6YojW1rLFvq)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_ordinal5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k12_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow ((k12_ordinal2 X0 np_1 = X0) \wedge (k12_ordinal2 np_1 X0 = np_1)) \quad (1)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (k1_ordinal5 X0 (k1_ordinal1 X1) = k12_ordinal2 X0 (k1_ordinal5 X0 X1))) \quad (2)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (k1_ordinal5 X0 k6_numbers = np_1) \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

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

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (6)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v3_ordinal1 X0) \quad (7)$$

Theorem 1 $\forall X0.(v3_ordinal1 X0) \Rightarrow (k1_ordinal5 X0 np_1 = X0)$.