

t31\_ordinal2  
(TMG9QDM39QhAyUJPbYiAZDT4FDWWokuG48p)

October 27, 2020

Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k10\_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k1\_ordinal1 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.(v3\_ordinal1 X1) \Rightarrow (k10\_ordinal2 X0 (k1\_ordinal1 X1) = k1\_ordinal1 (k10\_ordinal2 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (k10\_ordinal2 X0 k1\_xboole\_0 = X0) \quad (2)$$

Assume the following.

$$np\_1 = k1\_ordinal1 k1\_xboole\_0 \quad (3)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (4)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (v3\_ordinal1 X0) \quad (5)$$

**Theorem 1**  $\forall X0.(v3\_ordinal1 X0) \Rightarrow (k10\_ordinal2 X0 np\_1 = k1\_ordinal1 X0)$ .