

t30_ordinal1

(TMVLJrTLL9gUMK8AsBg4Bxrc2zh7W29U4s3)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (v4_relat_1\ k1_xboole_0\ X0) \wedge (v5_relat_1\ k1_xboole_0\ X1) \quad (1)$$

Assume the following.

$$v1_xboole_0\ k1_xboole_0 \quad (2)$$

Assume the following.

$$\forall X0. (v1_xboole_0\ X0) \Rightarrow (v5_ordinal1\ X0) \quad (3)$$

Assume the following.

$$\forall X0. (v1_xboole_0\ X0) \Rightarrow (v1_relat_1\ X0) \quad (4)$$

Assume the following.

$$\forall X0. (v1_xboole_0\ X0) \Rightarrow (v1_funct_1\ X0) \quad (5)$$

Theorem 1

$$\forall X0. (v1_relat_1\ k1_xboole_0) \wedge ((v5_relat_1\ k1_xboole_0\ X0) \wedge ((v1_funct_1\ k1_xboole_0) \wedge (v5_ordinal1\ k1_xboole_0)))$$