

t1_finseqop
(TMVWsh5i2kL2oM3FS4QJhigNUrhFSAGG3Le)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k13_funct_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1_relat_1 k1_xboole_0) \wedge ((v5_relat_1 k1_xboole_0 X0) \wedge (v1_funct_1 k1_xboole_0) \wedge (v5_ordinal1 k1_xboole_0)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_xboole_0 X0))) \wedge ((v1_relat_1 X1) \wedge (v1_funct_1 X1))) \Rightarrow ((v1_relat_1 (k13_funct_3 X1 X0)) \wedge ((v1_funct_1 (k13_funct_3 X1 X0)) \wedge (v1_xboole_0 (k13_funct_3 X1 X0)))) \quad (3)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_xboole_0 X0))) \wedge ((v1_relat_1 X1) \wedge (v1_funct_1 X1))) \Rightarrow ((v1_relat_1 (k13_funct_3 X0 X1)) \wedge ((v1_funct_1 (k13_funct_3 X0 X1)) \wedge (v1_xboole_0 (k13_funct_3 X0 X1)))) \quad (5)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((k13_funct_3 k1_xboole_0 X0 = k1_xboole_0) \wedge (k13_funct_3 X0 k1_xboole_0 = k1_xboole_0))$$