

l186_relat_1 (TMSCeXPFPmudWcdkmdmdUf- doDWDggzrXvk)

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Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Assume the following.

$$(k9_xtuple_0 \ k1_xboole_0 = k1_xboole_0) \wedge (k10_xtuple_0 \ k1_xboole_0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0. r1_tarski \ k1_xboole_0 \ X0 \quad (2)$$

Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 \ X1) \Rightarrow ((v5_relat_1 \ X1 \ X0) \Leftrightarrow (r1_tarski \ (k10_xtuple_0 \ X1) \ X0)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 \ X1) \Rightarrow ((v4_relat_1 \ X1 \ X0) \Leftrightarrow (r1_tarski \ (k9_xtuple_0 \ X1) \ X0)) \quad (5)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (v1_relat_1 \ X0) \quad (6)$$

Theorem 1

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