

t5_finseq_4 (TMFg- WEyf8TFygDQdQRYqHzv9y3PeJ7B5w6X)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $r2_finseq_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k8_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k10_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow ((X0 \in k10_xtuple_0 X1) \Leftrightarrow (k8_relat_1 X1 (k1_tarski X0) \neq k1_xboole_0)) \quad (1)$$

Assume the following.

$$k1_card_1 k1_xboole_0 = k1_xboole_0 \quad (2)$$

Assume the following.

$$\neg v1_xboole_0 np_1 \quad (3)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (r2_finseq_4 X0 X1) \Leftrightarrow (k1_card_1 (k10_relat_1 X0 X1) = np_1)) \quad (5)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. k10_relat_1 X0 X1 = k8_relat_1 X0 (k1_tarski X1)) \quad (6)$$

Theorem 1

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1. (r2_finseq_4 X0 X1) \Rightarrow (X1 \in k10_xtuple_0 X0))$$