

t78_cohsp_1 (TMXynNXhwDiLsZERQTCyNcoK-
fZzKEEeYb54)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14_cohsp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (k4_tarski X2 np_2 \in k14_cohsp_1 X0 X1) \Leftrightarrow (X2 \in X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (k4_tarski X2 np_1 \in k14_cohsp_1 X0 X1) \Leftrightarrow (X2 \in X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 \in k14_cohsp_1 X0 X1) \Rightarrow ((X2 = k4_tarski (k1_xtuple_0 X2) (k2_xtuple_0 X2)) \wedge (((k2_xtuple_0 X2 = np_1) \wedge (k1_xtuple_0 X2 \in X0)) \vee ((k2_xtuple_0 X2 = np_2) \wedge (k1_xtuple_0 X2 \in X1)))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. (r1_tarski (k14_cohsp_1 X0 X1) (k14_cohsp_1 X2 X3)) \Leftrightarrow ((r1_tarski X0 X2) \wedge (r1_tarski X1 X3))$$