

t2_ramsey_1
 (TMJc4ckDFuUi1SWPdjVZvdypWwK63MDjsMq)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1_finset_1 X0) \Leftrightarrow (k1_card_1 X0 \in k4_ordinal1) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(v1_card_1 X1) \Rightarrow ((r1_tarski X0 X1) \Rightarrow (r1_ordinal1 (k1_card_1 X0) X1)) \quad (2)$$

Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow (\forall X1.(v1_card_1 X1) \Rightarrow ((X0 \in X1) \Leftrightarrow ((r1_ordinal1 X0 X1) \wedge (X0 \neq X1)))) \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$v1_card_1 k4_ordinal1 \quad (5)$$

Assume the following.

$$\forall X0.v1_card_1 (k1_card_1 X0) \quad (6)$$

Theorem 1

$$\forall X0.(r1_tarski X0 k4_ordinal1) \Rightarrow ((v1_finset_1 X0) \vee (k1_card_1 X0 = k4_ordinal1))$$