

t4_ramsey_1
(TMPq9dxvZECQBsiYxpVjLD1U9uWHBTX2eYz)

October 27, 2020

Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg(\neg v1_finset_1 X0) \wedge (v1_finset_1 (k2_xboole_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 (k4_xboole_0 X1 X0) = k2_xboole_0 X0 X1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_finset_1 X0) \wedge (v1_finset_1 X1)) \Rightarrow (v1_finset_1 (k2_xboole_0 X0 X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (5)$$

Theorem 1

$$\forall X0. \forall X1. \neg(\neg v1_finset_1 X0) \wedge ((v1_finset_1 X1) \wedge (v1_finset_1 (k6_subset_1 X0 X1)))$$