

t5_graph_5 (TMQkaXKVuEYMxvp- SKVnkyJqWWX6B8MmH5mc)

October 27, 2020

Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_zfmisc_1 : \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v1_zfmisc_1 X0)) \Rightarrow (\exists X1. (m1_subset_1 X1 X0) \wedge (X0 = k1_tarski X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow (k5_card_1 X0 = k1_card_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(v3_card_1 X1 X0) \Leftrightarrow (k1_card_1 X1 = X0) \quad (3)$$

Assume the following.

$$\forall X0.(v3_card_1 X0 np_1) \Rightarrow ((\neg v1_xboole_0 X0) \wedge (v1_zfmisc_1 X0)) \quad (4)$$

Theorem 1

$$\forall X0.(v1_finset_1 X0) \Rightarrow (\neg (k5_card_1 X0 = np_1) \wedge (\forall X1. (m1_subset_1 X1 X0) \Rightarrow (X0 \neq k1_tarski X1)))$$