

l36_zf_fund1 (TMdV- DAp6T6tCDuNUs9TxXv6Qnat6yg9nZXT)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_classes2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v8_zf_fund1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_ordinal4 : \iota \Rightarrow \iota$ be given. Let $k3_ordinal4 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg(X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \neg(X0 \in X1) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 X2)) \wedge (v1_xboole_0 X2)) \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0))) \Rightarrow ((v8_zf_fund1 X1 X0) \Rightarrow (k1_xboole_0 \in X1))) \quad (3)$$

Assume the following.

$$\forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow ((k2_ordinal4 X0 = k1_xboole_0) \wedge (k3_ordinal4 X0 = np_1)) \quad (4)$$

Assume the following.

$$\forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0))) \Rightarrow (\forall X2. \forall X3. (v8_zf_fund1 X1 X0) \Rightarrow (((X2 \in X1) \Rightarrow (k1_tarski X2 \in X1)) \wedge (((k1_tarski X2 \in X1) \Rightarrow (X2 \in X1)) \wedge ((X3 \in X1) \Rightarrow (k3_tarski X3 \in X1)))))) \quad (5)$$

Assume the following.

$$\forall X0. k2_tarski X0 X0 = k1_tarski X0 \quad (6)$$

Assume the following.

$$np_1 = k1_tarski\ k1_xboole_0 \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0\ X0) \wedge (v1_classes2\ X0)) \Rightarrow (\forall X1. \\ & ((\neg v1_xboole_0\ X1) \wedge (m1_subset_1\ X1\ (k1_zfmisc_1\ X0))) \Rightarrow ((v8_zf_fund1 \\ & X1\ X0) \Rightarrow ((k2_ordinal4\ X0 \in X1) \wedge (k3_ordinal4\ X0 \in X1)))) \end{aligned}$$