

t5_zfrefle1 (TMGXZFmFtrESADbCsgpRAjdpxb- bzCSkvCNj)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r1_zfrefle1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfrefle1 : \iota$ be given. Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_zf_model : \iota \Rightarrow o$ be given. Let $v1_zf_lang : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k9_zf_lang : \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k1_zfrefle1 : \iota$ be given. Let $k9_zf_model : \iota$ be given. Let $k8_zf_model : \iota$ be given. Let $k7_zf_model : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k11_zf_model : \iota \Rightarrow \iota$ be given. Let $k10_zf_model : \iota$ be given. Let $k6_zf_model : \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zf_lang : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $k2_zf_model : \iota \Rightarrow \iota$ be given. Let $r2_zf_model : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Leftrightarrow (X0 \in k9_zf_lang) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

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

Assume the following.

$$k2_zfrefle1 = k1_zfrefle1 \quad (5)$$

Assume the following.

$$(v1_zf_lang k9_zf_model) \wedge (m2_finseq_1 k9_zf_model k5_numbers) \quad (6)$$

Assume the following.

$$(v1_zf_lang\ k8_zf_model) \wedge (m2_finseq_1\ k8_zf_model\ k5_numbers) \quad (7)$$

Assume the following.

$$(v1_zf_lang\ k7_zf_model) \wedge (m2_finseq_1\ k7_zf_model\ k5_numbers) \quad (8)$$

Assume the following.

$$m1_subset_1\ k2_zrefle1\ (k1_zfmisc_1\ k9_zf_lang) \quad (9)$$

Assume the following.

$$\forall X0. ((v1_zf_lang\ X0) \wedge (m1_finseq_1\ X0\ k5_numbers)) \Rightarrow ((v1_zf_lang\ (k11_zf_model\ X0)) \wedge (m2_finseq_1\ (k11_zf_model\ X0\ k5_numbers))) \quad (10)$$

Assume the following.

$$(v1_zf_lang\ k10_zf_model) \wedge (m2_finseq_1\ k10_zf_model\ k5_numbers) \quad (11)$$

Assume the following.

$$\begin{aligned} \forall X0. (X0 = k1_zrefle1) \Leftrightarrow (\forall X1. (X1 \in X0) \Leftrightarrow ((X1 \in k9_zf_lang) \wedge \\ (\neg(X1 \neq k6_zf_model) \wedge (\neg(X1 \neq k7_zf_model) \wedge (\neg(X1 \neq k8_zf_model) \wedge \\ ((X1 \neq k9_zf_model) \wedge (\neg(X1 \neq k10_zf_model) \wedge (\forall X2. ((v1_zf_lang\ X2) \wedge \\ (m2_finseq_1\ X2\ k5_numbers)) \Rightarrow (\neg(r1_xboole_0\ (k1_enumset1\ (k2_zf_lang\ k6_numbers)\ (k2_zf_lang\ np_1)\ (k2_zf_lang\ np_2)) \\ (k2_zf_model\ X2)) \wedge (X1 = k11_zf_model\ X2)))))))))) \quad (12) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0\ X0) \Rightarrow (\forall X1. (m1_subset_1\ X1\ (k1_zfmisc_1\ k9_zf_lang)) \Rightarrow ((r1_zrefle1\ X0\ X1) \Leftrightarrow (\forall X2. ((v1_zf_lang\ X2) \wedge \\ (m2_finseq_1\ X2\ k5_numbers)) \Rightarrow ((X2 \in X1) \Rightarrow (r2_zf_model\ X0\ X2)))))) \quad (13) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0\ X0) \Rightarrow ((v1_zf_model\ X0) \Leftrightarrow ((v1_ordinal1\ X0) \wedge \\ ((r2_zf_model\ X0\ k7_zf_model) \wedge ((r2_zf_model\ X0\ k8_zf_model) \wedge \\ ((r2_zf_model\ X0\ k9_zf_model) \wedge ((r2_zf_model\ X0\ k10_zf_model) \wedge \\ (\forall X1. ((v1_zf_lang\ X1) \wedge (m2_finseq_1\ X1\ k5_numbers)) \Rightarrow (\\ (r1_xboole_0\ (k1_enumset1\ (k2_zf_lang\ k6_numbers)\ (k2_zf_lang\ np_1)\ (k2_zf_lang\ np_2)) \\ (k2_zf_model\ X1)) \Rightarrow (r2_zf_model\ X0\ (k11_zf_model\ X1)))))))))) \quad (14) \end{aligned}$$

Theorem 1

$$\forall X0. (\neg v1_xboole_0\ X0) \Rightarrow (((r1_zrefle1\ X0\ k2_zrefle1) \wedge (v1_ordinal1\ X0)) \Rightarrow (v1_zf_model\ X0))$$