

t34_goedelcp
(TMXSp8X5JDvaJwdjzqPTpU8SRFEM1GAnTdS)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $v1_henmodel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_cqc_lang : \iota \Rightarrow \iota$ be given. Let $v4_card_3 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k6_goedelcp : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_henmodel : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r6_calcul_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_henmodel : \iota \Rightarrow \iota$ be given. Let $k3_henmodel : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_goedelcp : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_goedelcp : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $r1_henmodel : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_valuat_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_valuat_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k2_valuat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\neg(X0 \in X1) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 X2)) \wedge (v1_xboole_0 X2)) \quad (1)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.((v1_henmodel X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k3_cqc_lang X0)))) \Rightarrow (\neg(v4_card_3 X0) \wedge ((v2_goedelcp X1 X0) \wedge (\forall X2.((v1_henmodel X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k3_cqc_lang X0)))) \Rightarrow (\neg(r1_tarski X1 X2) \wedge ((v1_goedelcp X2 X0) \wedge (v2_goedelcp X2 X0))))))) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.((v1_henmodel\ X1\ X0) \wedge \\ (m1_subset_1\ X1\ (k1_zfmisc_1\ (k3_cqc_lang\ X0)))) \Rightarrow (\neg(v4_card_3 \\ X0) \wedge ((v1_finset_1\ (k6_goedelcp\ X0\ X1)) \wedge (\forall X2.((v1_henmodel \\ X2\ X0) \wedge (m1_subset_1\ X2\ (k1_zfmisc_1\ (k3_cqc_lang\ X0)))) \Rightarrow (\neg(r1_tarski \\ X1\ X2) \wedge (v2_goedelcp\ X2\ X0)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1\ X0\ X1) \Rightarrow ((v1_xboole_0\ X1) \vee (X0 \in X1)) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (k3_cqc_lang\ X0))) \Rightarrow (\forall X2.(m2_subset_1\ X2\ (k9_qc_lang1 \\ X0)\ (k3_cqc_lang\ X0)) \Rightarrow ((X2 \in X1) \Rightarrow (r1_henmodel\ X0\ X1\ X2)))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1_tarski\ X0\ X1) \wedge (r1_tarski\ X1\ X2)) \Rightarrow (r1_tarski\ X0\ X2) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.((v1_henmodel\ X1\ X0) \wedge \\ (m1_subset_1\ X1\ (k1_zfmisc_1\ (k3_cqc_lang\ X0)))) \Rightarrow (\forall X2. \\ (m1_henmodel\ X2\ X0\ X1) \Rightarrow (\forall X3.(m2_subset_1\ X3\ (k9_qc_lang1 \\ X0)\ (k3_cqc_lang\ X0)) \Rightarrow (((v1_goedelcp\ X1\ X0) \wedge (v2_goedelcp\ X1\ X0)) \Rightarrow \\ ((r1_valuat_1\ X0\ (k1_henmodel\ X0)\ X3\ X2\ (k3_henmodel\ X0)) \Leftrightarrow (r1_henmodel \\ X0\ X1\ X3)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((m1_qc_lang1\ X0) \wedge ((v1_henmodel\ X1\ X0) \wedge (m1_subset_1\ X1\ (k1_zfmisc_1\ (k3_cqc_lang\ X0)))) \Rightarrow (\exists X2. m1_henmodel\ X2\ X0\ X1)) \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1_qc_lang1\ X0) \wedge ((v1_henmodel\ X1\ X0) \wedge \\ (m1_subset_1\ X1\ (k1_zfmisc_1\ (k3_cqc_lang\ X0)))) \Rightarrow (\forall X2. \\ (m1_henmodel\ X2\ X0\ X1) \Rightarrow (m1_valuat_1\ X2\ X0\ (k1_henmodel\ X0)))) \end{aligned} \quad (11)$$

Assume the following.

$$\forall X0.(m1_qc_lang1\ X0) \Rightarrow (m2_funct_2\ (k3_henmodel\ X0)\ (k3_qc_lang1\ X0)\ (k1_henmodel\ X0)\ (k2_valuat_1\ X0\ (k1_henmodel\ X0))) \quad (12)$$

Assume the following.

$$\forall X0.(m1_qc_lang1\ X0)\Rightarrow(\neg v1_xboole_0\ (k1_henmodel\ X0)) \quad (13)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (k3_cqc_lang\ X0)))\Rightarrow(\forall X2.(\neg v1_xboole_0\ X2)\Rightarrow(\forall X3. \\ (m1_valuat_1\ X3\ X0\ X2)\Rightarrow(\forall X4.(m2_funct_2\ X4\ (k3_qc_lang1 \\ X0)\ X2\ (k2_valuat_1\ X0\ X2))\Rightarrow((r6_calcul_1\ X0\ X1\ X2\ X3\ X4)\Leftrightarrow(\forall X5. \\ (m2_subset_1\ X5\ (k9_qc_lang1\ X0)\ (k3_cqc_lang\ X0))\Rightarrow((X5 \in X1)\Rightarrow \\ (r1_valuat_1\ X0\ X2\ X5\ X3\ X4)))))))))) \end{aligned} \quad (14)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_qc_lang1\ X0)\Rightarrow(\forall X1.((v1_henmodel\ X1\ X0)\wedge \\ (m1_subset_1\ X1\ (k1_zfmisc_1\ (k3_cqc_lang\ X0))))\Rightarrow(\neg(v4_card_3 \\ X0)\wedge((v1_finset_1\ (k6_goedelcp\ X0\ X1))\wedge(\forall X2.((v1_henmodel \\ X2\ X0)\wedge(m1_subset_1\ X2\ (k1_zfmisc_1\ (k3_cqc_lang\ X0))))\Rightarrow(\forall X3. \\ (m1_henmodel\ X3\ X0\ X2)\Rightarrow(\neg r6_calcul_1\ X0\ X1\ (k1_henmodel\ X0)\ X3\ (\\ k3_henmodel\ X0)))))))))) \end{aligned}$$