

t7_goedelcp
(TMKzLgr7zfFFkybGd6hNZHzDS9uTrh6c1ng)

October 27, 2020

Let $m1_qc_lang1 : \iota \Rightarrow o$ 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 $k3_cqc_lang : \iota \Rightarrow \iota$ 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 $m1_henmodel : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_goedelcp : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_goedelcp : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_valuat_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_henmodel : \iota \Rightarrow \iota$ be given. Let $k3_henmodel : \iota \Rightarrow \iota$ be given. Let $r1_henmodel : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_cqc_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ 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. Let $m1_valuat_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow (\forall X2.(m2_subset_1 X2 (k9_qc_lang1 \\ X0) (k3_cqc_lang X0)) \Rightarrow (\forall X3.(m2_subset_1 X3 (k9_qc_lang1 \\ X0) (k3_cqc_lang X0)) \Rightarrow ((r1_henmodel X0 X1 X2) \wedge (r1_henmodel X0 \\ X1 X3)) \Leftrightarrow (r1_henmodel X0 X1 (k7_cqc_lang X0 X2 X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (\\ \forall X2.(m2_funct_2 X2 (k3_qc_lang1 X0) X1 (k2_valuat_1 X0 X1)) \Rightarrow \\ (\forall X3.(m2_subset_1 X3 (k9_qc_lang1 X0) (k3_cqc_lang X0)) \Rightarrow \\ (\forall X4.(m2_subset_1 X4 (k9_qc_lang1 X0) (k3_cqc_lang X0)) \Rightarrow \\ (\forall X5.(m1_valuat_1 X5 X0 X1) \Rightarrow ((r1_valuat_1 X0 X1 (k7_cqc_lang \\ X0 X3 X4) X5 X2) \Leftrightarrow ((r1_valuat_1 X0 X1 X3 X5 X2) \wedge (r1_valuat_1 X0 X1 X4 \\ X5 X2)))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1_qc_lang1 X0) \wedge ((v1_henmodel X1 X0) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 (k3_cqc_lang X0)))))) \Rightarrow (\forall X2. \\ (m1_henmodel X2 X0 X1) \Rightarrow (m1_valuat_1 X2 X0 (k1_henmodel X0))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (m2_funct_2 (k3_henmodel X0) (k3_qc_lang1 X0) (k1_henmodel X0) (k2_valuat_1 X0 (k1_henmodel X0))) \quad (4)$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (\neg v1_xboole_0 (k1_henmodel X0)) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m2_subset_1 X1 (k9_qc_lang1 X0) (k3_cqc_lang X0)) \Rightarrow (\forall X2.(m2_subset_1 X2 (k9_qc_lang1 X0) (k3_cqc_lang X0)) \Rightarrow (\forall X3.((v1_henmodel X3 X0) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k3_cqc_lang X0)))) \Rightarrow (\forall X4.(m1_henmodel X4 X0 X3) \Rightarrow (((v1_goedelcp X3 X0) \wedge (v2_goedelcp X3 X0)) \Rightarrow (((v1_goedelcp X3 X0) \wedge ((v2_goedelcp X3 X0) \wedge (\neg(r1_valuat_1 X0 (k1_henmodel X0) X1 X4 (k3_henmodel X0)) \Leftrightarrow (r1_henmodel X0 X3 X1)))) \vee (((v1_goedelcp X3 X0) \wedge ((v2_goedelcp X3 X0) \wedge (\neg(r1_valuat_1 X0 (k1_henmodel X0) X2 X4 (k3_henmodel X0)) \Leftrightarrow (r1_henmodel X0 X3 X2)))) \vee ((r1_valuat_1 X0 (k1_henmodel X0) (k7_cqc_lang X0 X1 X2) X4 (k3_henmodel X0)) \Leftrightarrow (r1_henmodel X0 X3 (k7_cqc_lang X0 X1 X2)))))))))) \end{aligned}$$