

t64_qc_lang2
(TMU8rUdJN3Ebksz4p973r7AsyFSeW5dzrdA)

October 27, 2020

Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $r3_qc_lang2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $r1_qc_lang2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k9_qc_lang1 \\ X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (k9_qc_lang1 X0)) \Rightarrow (\neg(r3_qc_lang2 \\ X0 X1 X2) \wedge (\forall X3.(m1_subset_1 X3 (k9_qc_lang1 X0)) \Rightarrow (\neg r1_qc_lang2 \\ X0 X3 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k9_qc_lang1 X0)) \Rightarrow (\neg r1_qc_lang2 X0 X1 (k12_qc_lang1 X0))) \tag{2}$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (m1_subset_1 (k12_qc_lang1 X0) (k9_qc_lang1 X0)) \tag{3}$$

Theorem 1

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k9_qc_lang1 X0)) \Rightarrow (\neg r3_qc_lang2 X0 X1 (k12_qc_lang1 X0)))$$