

t20_qc_lang3 (TMZo- HtFC8APtDKXorc5tuXK3VYprqawGzvY)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $v6_qc_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k1_qc_lang2 : \iota \Rightarrow \iota$ be given. Let $k24_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_qc_lang1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (k24_qc_lang1 X0 (k1_qc_lang2 X0) = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (k24_qc_lang1 X0 (k12_qc_lang1 X0) = k1_xboole_0) \quad (2)$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (m1_subset_1 (k1_qc_lang2 X0) (k9_qc_lang1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (m1_subset_1 (k12_qc_lang1 X0) (k9_qc_lang1 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k9_qc_lang1 X0)) \Rightarrow ((v6_qc_lang1 X1 X0) \Leftrightarrow (k24_qc_lang1 X0 X1 = k1_xboole_0))) \quad (5)$$

Theorem 1

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow ((v6_qc_lang1 (k12_qc_lang1 X0) X0) \wedge (v6_qc_lang1 (k1_qc_lang2 X0) X0))$$