t8_qc_lang2 (TMdiGA4DZFwjXYV3SncbwoveVcX7xV39Vrk)

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Let $m1\_qc\_lang1 : \iota \Rightarrow o$ be given. Let $v3\_qc\_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_qc\_lang2 : \iota \Rightarrow \iota$ be given. Let $k18\_qc\_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $k13\_qc\_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (m1\_subset\_1\ (k1\_qc\_lang2\ X0)\ (k9\_qc\_lang1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (m1\_subset\_1\ (k12\_qc\_lang1\ X0)\ (k9\_qc\_lang1\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k9\_qc\_lang1\ X0)) \Rightarrow ((v3\_qc\_lang1\ X1\ X0) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k9\_qc\_lang1\ X0)) \Rightarrow ((X2 = k18\_qc\_lang1\ X0\ X1) \Leftrightarrow (X1 = k13\_qc\_lang1\ X0\ X2))))) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (k1\_qc\_lang2\ X0 = k13\_qc\_lang1\ X0\ (k12\_qc\_lang1\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k9\_qc\_lang1\ X0)) \Rightarrow ((v3\_qc\_lang1\ X1\ X0) \Leftrightarrow (\exists X2.(m1\_subset\_1\ X2\ (k9\_qc\_lang1\ X0)) \wedge (X1 = k13\_qc\_lang1\ X0\ X2)))) \tag{5}$$

Theorem 1

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow ((v3\_qc\_lang1\ (k1\_qc\_lang2\ X0)\ X0) \wedge (k18\_qc\_lang1\ X0\ (k1\_qc\_lang2\ X0) = k12\_qc\_lang1\ X0))$$