

t17\_lukasi\_1

(TMXo1oJZhqa7Q5mhr4mG5ycYXZDDHtcu8SQ)

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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  $k8\_cqc\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_cqc\_the1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_qc\_lang1 X0) \Rightarrow (\forall X1.(m2\_subset\_1 X1 (k9\_qc\_lang1 \\ X0) (k3\_cqc\_lang X0)) \Rightarrow (\forall X2.(m2\_subset\_1 X2 (k9\_qc\_lang1 \\ X0) (k3\_cqc\_lang X0)) \Rightarrow (((X1 \in k4\_cqc\_the1 X0) \wedge (k8\_cqc\_lang X0 \\ X1 X2 \in k4\_cqc\_the1 X0)) \Rightarrow (X2 \in k4\_cqc\_the1 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1\_qc\_lang1 X0) \Rightarrow (\forall X1.(m2\_subset\_1 X1 (k9\_qc\_lang1 \\ X0) (k3\_cqc\_lang X0)) \Rightarrow (\forall X2.(m2\_subset\_1 X2 (k9\_qc\_lang1 \\ X0) (k3\_cqc\_lang X0)) \Rightarrow (\forall X3.(m2\_subset\_1 X3 (k9\_qc\_lang1 \\ X0) (k3\_cqc\_lang X0)) \Rightarrow (((k8\_cqc\_lang X0 X1 (k8\_cqc\_lang X0 X2 X3) \in \\ k4\_cqc\_the1 X0) \wedge (X2 \in k4\_cqc\_the1 X0)) \Rightarrow (k8\_cqc\_lang X0 X1 X3 \in k4\_cqc\_the1 \\ X0)))))) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(m1\_qc\_lang1 X0) \Rightarrow (\forall X1.(m2\_subset\_1 X1 (k9\_qc\_lang1 \\ X0) (k3\_cqc\_lang X0)) \Rightarrow (\forall X2.(m2\_subset\_1 X2 (k9\_qc\_lang1 \\ X0) (k3\_cqc\_lang X0)) \Rightarrow (\forall X3.(m2\_subset\_1 X3 (k9\_qc\_lang1 \\ X0) (k3\_cqc\_lang X0)) \Rightarrow (((k8\_cqc\_lang X0 X1 (k8\_cqc\_lang X0 X2 X3) \in \\ k4\_cqc\_the1 X0) \wedge ((X2 \in k4\_cqc\_the1 X0) \wedge (X1 \in k4\_cqc\_the1 X0)) \Rightarrow \\ (X3 \in k4\_cqc\_the1 X0)))))) \end{aligned}$$