

# t35\_goedelcp (TMVNFknXjFX- igD5EnhE7EznWLUkKcNaxuxg)

October 27, 2020

Let  $m1\_qc\_lang1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_cqc\_lang : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m1\_valuat\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m2\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_qc\_lang1 : \iota \Rightarrow \iota$  be given. Let  $k2\_valuat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r6\_calcul\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  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  $r1\_valuat\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1\_qc\_lang1 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ (k3\_cqc\_lang X0))) \Rightarrow (\forall X2. (\neg v1\_xboole\_0 X2) \Rightarrow (\forall X3. \\ (m1\_valuat\_1 X3 X0 X2) \Rightarrow (\forall X4. (m2\_funct\_2 X4 (k3\_qc\_lang1 \\ X0) X2 (k2\_valuat\_1 X0 X2)) \Rightarrow ((r6\_calcul\_1 X0 X1 X2 X3 X4) \Leftrightarrow (\forall X5. \\ (m2\_subset\_1 X5 (k9\_qc\_lang1 X0) (k3\_cqc\_lang X0)) \Rightarrow ((X5 \in X1) \Rightarrow \\ (r1\_valuat\_1 X0 X2 X5 X3 X4)))))))))) \end{aligned} \quad (2)$$

## Theorem 1

$$\begin{aligned} \forall X0. (m1\_qc\_lang1 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ (k3\_cqc\_lang X0))) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ (k3\_cqc\_lang X0))) \Rightarrow (\forall X3. (\neg v1\_xboole\_0 X3) \Rightarrow (\forall X4. \\ (m1\_valuat\_1 X4 X0 X3) \Rightarrow (\forall X5. (m2\_funct\_2 X5 (k3\_qc\_lang1 \\ X0) X3 (k2\_valuat\_1 X0 X3)) \Rightarrow (((r6\_calcul\_1 X0 X1 X3 X4 X5) \wedge (r1\_tarski \\ X2 X1)) \Rightarrow (r6\_calcul\_1 X0 X2 X3 X4 X5)))))))))) \end{aligned}$$