

t53\_zf\_lang1  
(TMFPcN2Cr5BXvWtSj8bopSXP86yrT1augku)

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Let  $v1\_zf\_lang : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k29\_zf\_lang : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r2\_zf\_lang : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow ((r2\_zf\_lang \\ & X0 X1) \Rightarrow (r1\_tarski (k29\_zf\_lang X0) (k29\_zf\_lang X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & (X1 = k29\_zf\_lang X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (\exists X3.((v1\_zf\_lang \\ & X3) \wedge (m2\_finseq\_1 X3 k5\_numbers)) \wedge ((X3 = X2) \wedge (r2\_zf\_lang X3 X0)))))) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow ((X0 \in k29\_zf\_lang \\ & X1) \Rightarrow (r1\_tarski (k29\_zf\_lang X0) (k29\_zf\_lang X1)))) \end{aligned}$$